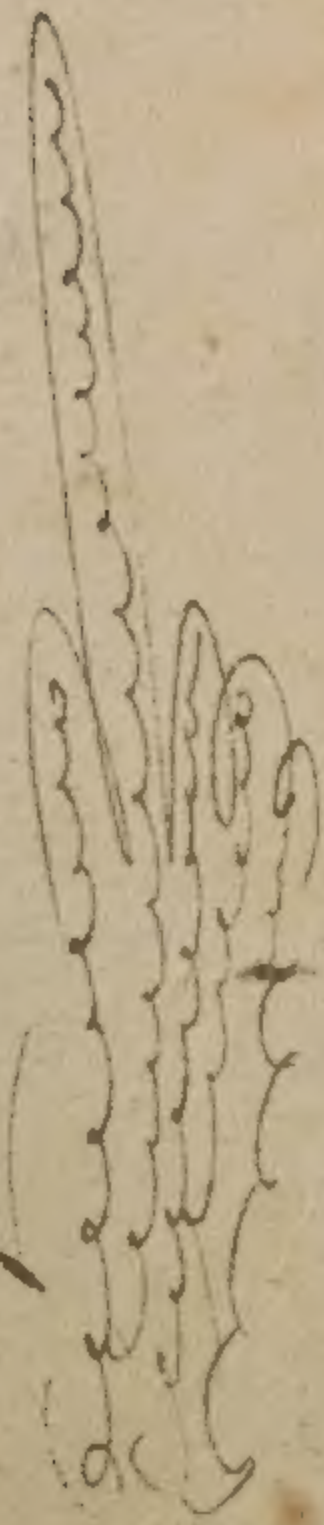




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Archer Hunt.



Manuscript Lectures
on
Materia Medica
by

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Botany & Natural
History in the
University of Limerick

Nov^r 28th 1797

N^o 1.

Lecture 1st. -

Introductory —

Books recommended -

Cullen's. old Edition - M. Medica

Dr. Astley's Edit. of Linnæus: M. M.

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Lecture 2^a. Nov^r 28^{mo}

History of M.M.

Lecture 3^a. - 30th

History continued -

The study of Chemistry is certainly of the highest importance to the study of M.M.

Botanical affinity or analogy is also necessary for investigating the properties of vegetables -

- Distillation -

Tests to distinguish the virtues of Plants - 1. Taste - 2. Smell - from these little certainty can be acquired - 3. Colour -
Lecture 4th. Dec^r 1^{mo}

Plan to be pursued in a course of Lectures on M.M.

In Cullen's arrangement of vegetables is here often deficient -

M.M. divided in M.M.
elementary ^{& medicinal} - - Cullen's here

is good -

I shall lay great attention to Aliments -

by aliments such substances afford nourishment -

Gullen says is nutritious parts of Vegetal: acids.

in acids - sugar & oil -

his ideas are not chimerical -

acids are a necessary

ingredient in animal

fluid - says Gullen - Gullen says

is mineral acids ~~do~~ not enter

in because they do not use

is necessary - he is wrong - I think

that acids, I mean is Oxygen

in them are essentially necessary

to is support of good health -

Digestion is ~~not~~ carried on by

no fermentation, as would

by Challanzani, Hunter & but

by is gastric fluid - acids,

produced in digestion, are

owing to it ~~is~~ ^{is} ~~is~~ not going

on properly - I do not mean

is whole of process of digestion

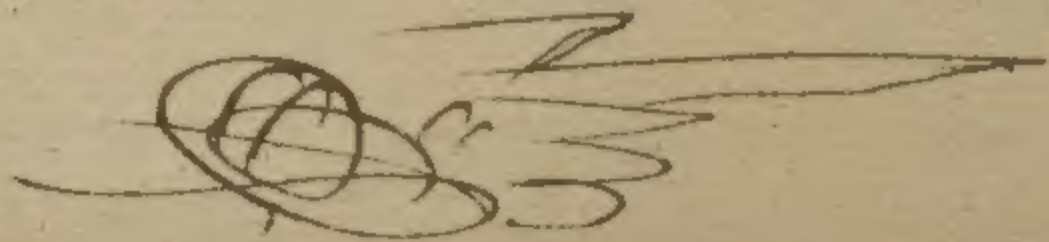
(3)
is carried on by a quantity of
of gastric juice -

2. Sugar is a second kind
noticed by Cullen - Sugar is
one of the most nutritious sub-
stances in use - Therefore those
entirely most nourishing in-
-to which most saccharine mat-
ter enter - First not only afford
nourishment but strength -

Familiars substances similar
to saccharine - A Gent: used for
his cold blood, better, and sugar
- he lived to an old age without
disease and died of Plethora -

The weakened state from &
is restored by sugar - Sugar
is nourishment for Horns &

Sugar is hurtful to the teeth
owing to it sticking to the teeth
and thus undergoing the ac-
-cess fermentation - however
it is not so hurtful as supposed -



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Lecture - 5th Dec. 74 -

Experiments show the anti-
cancer power of sugar. Real
we sprinkled with sugar and
measured by sugar - Sugar
is unknown when sugar is
in much use - Volney says
sugar introduced in Denmark
it disappeared from the use
of coffee by it sugar it con-
tained - Sugar useful in ma-
lignant fevers - Dr. Stark saw
use of sugar, life lived
saved him - Sugar an Anti-
venereal - It destroys leech
worms - It destroys frogs when
sprinkled on them on convey-
ed - It kills Lizards - It kills
Pigeons - It kills Hens - Spar-
rows are not affected by it -
Quadrupeds not affected by it -
it has an immense range thro
the vegetable world - In some

The labors of Chemists could not detect it - The process of obtaining sugar is express the juice - mix it with a saturated solution of Lime - heat it and cool it and the sugar crystallizes - Sugar found in animal as well as vegetable world - from Milk - from Urine of humans laboring under Diabetes - Oils contain a species of sugar - Animal sugar different from vegetable in some respects -

3. Oil - Oily vegetables are very nutritious - according to authors - It enters into the animal blood - is an important part of that blood - is mixed with chyle before absorbed by lacteals - Oil does not enter into the blood at heart separately - is inter-

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materially mixed - Torpidity in animals is entirely accidental - it depends on climate - Torpid animals have more - discharge of feces - and circulation goes on - They all take in some stimulating substances -

The fat in their digestions supports them - These three principles - acids - oil & sugar, are not the only substances which afford nourishment -

Lecture 6th. Dec. 5th.

acids - oil & sugar are not the only nutriment - Mucilage or Gluten is certainly very nutritious - Gums are also nutritious - Dr. Hermann & I -

Gum: arabic: is of support of many - Gums are all mixed with water in vegetables - Dr. Hermann & myself supported a child some months by this Gum dissolved in water -

Gums are neutralized in no
 portion to sugar, acid & oil
 they contain, - says Dr. Bullen -

Calcareous Earth I am inclined
 to think is also neutralized - as
 also is it Calc Phosphate or
 Phosphate of Lime - these two
 substances are in my opinion
 an essential ingredient in
 animal blood - Some fish
 live entirely on calcareous Mat-
 ter - Calcareous earth is an ori-
 ginal substance -

Indivisible Aliment -

The seeds of vegetables -

I. Cereales - they are of differ-
 ent kinds of ^{Gramina} seeds used in
 food - as wheat - Maize &c.

They contain sugar. oil. & ^{phosphoric} matter -

1. Wheat. *triticum hibernum*
 of Linnaeus - is a tubercle. Grown in
 earth & soil wholly changes
 its nature of it different Gramina

1. Wheat meal contains 3 different
 + barina larger quantities -

Parts - 1. Starch - when
 dried it resembles horn - 'tis in-
 soluble in water & spirit of Wine
 It contains Ammoniacal salt or
 Vol. alk. - 'tis soluble in Urea-
 gas - 2. Cinnabarin Part - Starch

3. Saccharine Part - 'tis in
 its properties like sugar -
 4. Glutinous Part exists in all 5
 kinds of Cerealia - they give strength

Lecture 7th. Dec. 7th mo.

Fermented matter fermented &
 fermented into bread is in my opi-
 nion the most wholesome - Un-
 fermented matters less noxious 4th
 have hitherto been supposed - It
 undoubtedly will be injurious
 to dyspeptic stomachs - Children
 use it which is unfermented -
 The Chinese & Japanese live en-
 tirely on unfermented Rice -
 Ancient bread is unfermented -

* Materia vegeto-Animalis.

2. Rye.

it belongs to
Gramina - Rye meal sweetish
taste - mixed in water it readily
undergoes a ^{deco}acetic fermentation -
it is extremely nutritious - is
an improper ^{deco}for weak stomachs
for those troubled with Cardia-
algia - is good in certain habits
I know a Physician who has
acquired great reputation by his
scrubbing - this substance in cer-
tain habits - it did more ^{or}
medicine - An ardent spirit
is obtained from it - Rye is
subject to a disease which ren-
ders it unwholesome - Rye contains
ardent sp. - oil - ~~carbohydrates~~ Gas - &
alkali -

3. Barley.

It contains an amila-
ceous part of an ash color - is in
habits of cold - it matures a blan-
tified crop in 58 days - Its saccharine
part being quickly evolved is
reason for so frequently in making
Beer - It has been ascribed to con-
tain no vegeto materia - animalis -

is certainly nourishing - not so much as δ others -

4. Pot. Mel. - one half is amni-
cous matter - It is not distended
of nourishment - Dr. Gullen is of
same opinion - (vide Gullen) -

5. Rice - *Oryza sativa* of Linnaeus -
This is much the aliment in δ East In-
dies - &c. - It cannot well be made
into bread - It has been said to be dif-
ficult of digestion - This certainly is
very nutritious article - It has been
said to be injurious to δ Eyes - It is
in my opinion owing to the hot
vapor from them - Also is prepa-
red from Rice - called Sacchy -

6. Maize - Indian Corn
It has a considerable quantity
of saccharine matter - (Dr. Gullen, wrong -)
Green Corn causes δ germination of
a worm - The Indians use richory
ashes with it - They use green
corn - Their Intestines cannot be
used for sausage - being despera-
tes to a peculiar ~~man~~ -

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Lecture 6th Dec^r 8th Dec^r

Maise - is extremely nutriti-
ous. It was long y^e common
Bread of our common Country.
An intoxicating ^{drink} was obtained
from y^e Maise. called "y^e Wine of the
Maise" long before Europeans had
any intercourse with y^e Nations
of America. They did drink sooner
on it than ~~any~~ the Wine of y^e Grape.
They also prepared an intoxicating
drink from several plants

7. Millet - it contains sugar
but little arseny

Another Class.

1. Buck-wheat. is nourishing
2. Sago. - Made from the dige-
rent Palm Trees. That is from their
Pith - is insoluble in oil & sh^t.
Wine - is nutritious - is pro-
per for those stomachs that are
weak - good in Consumption -

3. Sallap. prepared from y^e
Archie powder of

Salad contains a greater quantity of nutriment in its smallest bulk. It contains vegetable and animal matter. It is supposed to be good in dysentery.

4. Potatoes. a species of the Solanum tuberosum - was unknown till it was discovered in America. It contains nutritive matter. The red color in it is produced by an acid.

5. Chestnut. It contains sugar & is saccharous. It is said to be useful in diarrhoea. It is the bread of many. It does not produce disease.

6. Wild Potatoes. It contains a large quantity of amylaceous matter.

II. Leguminous Seeds.

Dr. Farquhar says they are useful for the food of man.

They contain a more nutritious matter than is Secale. Amylaceous matter is produced from

them - saccharine matter and a
larger quantity of oil - altho' they are
highly nutritious yet they are more
difficultly soluble - Some of them
will kill animals by rendering
fatal -

Lecture 9th. Dec. 1844

III. Oily Nuts - Nuts Oleosa.

I mean those in which is oil
in large proportion - The oil
may be obtained by Expression or
Heat alone - The oil has been
supposed to be detached - is not
so - tho' it is some have separated -

These seeds are considerably
nutritious - tho' not well for
bulk with Cereales as Dr Bullen
supposes - They are difficult of
digestion -

1. Cocoa Nut - very oily -

2. Cocotate - is prepared from
a plant called Caca^o by Linnaeus
They were used as money by Mex-
icans - is highly nutritious - is
common in Phthis Pulmonaria

Taken. &c. - Those in blithome &c.
it ought not to use it. - is cer-
tainly improper - is improper
in Hemorrhoids. in Hemorrhoids.
as these means 19 out of 20 &c.
is treated by Evacuants - Hemor-
rhoids occur often in Yellow fever
as oil is obtained from it -

3. Poppy - Pappaver. - is also
now. - This quality is often
destroyed by heat & has frequent-
ly been used in diet by the Ro-
mans - D^{os} of it seeds extracted
with oil 3iv drachms of oil.

4. Cuscutaceae, Seeds.

Cuscut. - Melon. -
They are not re-
frigerating. - The oil similar to
is oil of almonds - vegetables
purified -

IV. Milk - I shall speak of it as
extracted from Goats - Goats - as
Mares - Cows & Women -
When drawn it appears of a

homogeneous nature - when
standing some they separate
1. Cream or is oily part of
milk. This is the first to be seen
when ~~exhaustion~~ it takes place
sooner when exposed to air. Almon-
there - more cream may be ob-
tained by frequently skimming -
agitation produces aeration -
milk exposed to air becomes
acid - and forms itself into curd
mass - Heat renders curd retards
coagulation - Lightening coagula-
tes it - A small proportion of
cream is in a great degree ^{owing} to
the food of animals - is proba-
bly owing in great degree to the
temperature and color of the
hair - Young animals do not afford
so much cream as older - Cream
contains some fixed some whey -
The formation of Butter is obtained
by agitation alone -
2. Oily Part - it resembles "oily"
part of vegetables - tho' the Butter is
butter - Butter & all animal oil

will become rancid. Butter is
first better. Milk is left subject
rancidity. Acidly, abso. rancidity -
as also does mucilaginous Matter.

Rancidity may be prevented by
addition of Nitre and Sugar -
it may be ^{by} tested by
alcohol - The acid is de-
lucic acid. This acid gives a
red color. If shaken with
carbonate of Lime - it unites to
G. & Silver - This is same acid we
discover in oil of all animals -

2. Coagulable Part - it may be
produced quickly by Rennet. It was
supposed to depend upon lactic acid
in the stomach of calf. This not
so - as proved by Dr. Gessy Edin:
Professor Chavin says it coagulable
part may be generated by veget-
table acids - That milk will not co-
agulate if woman's milk unless their
diet has been vegetable - Lina-
can coagulate Sheep's Milk -
vegetable acids coagulate all grammurous
animal milk - &c -

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Lecture 10th. Dec. 12th. 97-

The alkaline salts decompose the
coagulable part - Different kinds of
cheese arising entirely to the quali-
ty of the Milk - Alcohol & heat do
not act upon the coagulable part
in the same manner as when the
parts - Cheese is very much of an
animal nature - There is vola-
tile alkali or ammoniacal salt
in the Cheese - Cheese likewise differs
in its manner of making - as sal-
ting - drying &c - By heat it gives
out Carbonic acid and vol. alkali -
Heat makes harder it - The
alkaline solutions decompose it -
3. CURD or Whey - It contains
a large quantity of water -
- In its evaporation of moisture
& comes milk & whey is nearly
the same - When when separated
contains still a little acid & coagu-
lable - When it separates by itself
it is clearer of the two than whey -
When mixed into whey & separated
the matter is obtained by

separating is whey - evaporating
& drying - This sugar is same
what is in milk. This sugar of milk

has for its base two acids -

The milk from all animals
is nearly the same - An ac-
tive spirit is obtained from
Mare's Milk - Heat - Lancing &
Agitation are necessary to the
fermentation of milk -

Ever - Goat - Cow & Horse - Mare -
Mammals -

The milk of Ever contains 5 largest
quantity of it cascade lact - Goat
next - 4 - Only lact greater in
Ever - next in Cow 4 - The Breast
is larger in Mammals of Mare &
Goat -

Milk is produced in 5
mammals of human kind - Some
suppose it is chyle from its simi-
larity to it Milk is immediately
conveyed to the breast - however
plausible this may be I can-
not adopt it - Chyle has been found
in blood, canse say - I think it
nothing than fat -

Chyle goes thro' it & is absorbed in
 & is conveyed to the Heart - where it
 intimately mingles with the Blood -
 Milk I think therefore is not the
 same as the Chyle I mean - tho'
 I think it in a great degree formed
 from it - A mass of vegetable from
vegetables are found in Chyle &
 Milk - Mother taking Nurses have been
 said to nurse their Children - This it
 will do in my opinion provided
 the Nurse remains some time in
 the Intestines - but should it quickly
 pass her - the Child will not be
 affected - I saw a strong Nurse to
 a woman combined with Lau-
 damum - The Nurse had no Effect
 until 16 Hours - in 6 or 7 the Child
 was severely nursed -- Dr. Cooper
 & G. Salivation & Child - Milk is an
 extremely aqueous fluid - its consi-
 stence ~~recently~~ considerably increased
 in quantity by drinking fluid
 matters - Milk is extracted by Ex-
 traction from the Blood - vide Dr. Billen
 Dr. Darius's Opinion - as is Saccha-
 rin lactis - The saccharine Matter
 is ~~discharged~~

of Milk is produced from $\frac{S}{R}$
 Vegetables before assimilation is
 in Blood. Grasshopper animal
 Milk affords much saccharine Mat-
 ter - Carnivorous animals little or
 none -

Lecture 11th. Dec. 14th mo 1797.

Causes of milk - sometimes
 alone never any to the ve-
 getables taken - Macdougal re-
 cords it - Ladies give it
 a lot - Dr. McHenry says of milk
 - Dile and is most valuable
 - Milk is in proper manure
 is matter for clay, man-
 uration, in early life - For
 children, as said, furnish an
 exception - Dr. Gullen says, that
 it can be used as a great
 - healthy - Dr. Haller
 thinks otherwise - Dr. Haller
 thinks on most vegetables
 The Indian Children can take
 in 2 years of breast -
 they are perfectly healthy

in the monastery house. The
 patients are under best care
 by Dr. Damer & followed by
 Dr. Smith. Therefore a broken
 still living life. After
 the 24th of June to be in
 the English Theatre. "After
 all our remedies" -
 Bullen says a milk diet will
 prevent a bit of Gout - it is not
 so - In small-pox when a
 symptomatic diarrhoea comes
 it has been said to be a good
 remedy - The Cornish
 mine prepared from March
 1st - Dr. Damer says is good in
 debilitated habits. Tartar is
 a restoring diet - is con-
 sidered of value according to
 the British Museum - Cases with
 a nervous spirit by
 stimulation, says Dr. Pallas -

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Lecture 12th. Dec. 1870

2. Materia Medica Medicamina -

It is difficult to make a
higher arrangement -

1. Astringents. Dr. Gullen
says they produce a constric-
tion & consolidation of the
fluids & solids - he thinks they
act chemically - I think not -
Medicines have a very es-
sential different effect upon
dead and living matter - for
instance the Acid summa-
rid in $\frac{1}{2}$ oak - It is different in
living matter - As long as it
animal lives astringents have
no chemical effect. W. Moore
M. Med. - his Experiments on oak de-
coction - Astringents & Tonics I
may call as Stimuli - oak solu-
tion is given to produce a
diaphoresis - Persons should be
cautious in its administration

Of these medicines. if they be
 given as I do, that they act thro
 the medium of the Liver, - to
 different parts of the Body -

They are also carried to different
 parts of the System by the Circula-
 tion sometimes, as Macleod -

These ~~same~~ ^{similar} astringents have an
 operation of ~~irritation~~ ^{irritation} as ani-
 mal bile - As those that are
 wounded and need a cure
 are soon stopped by the applica-
 tion of these Medicines -

They are, many say, composed
 of acids and Earth - All astring-
 ents in certain cases are
 purgative - which proves my
 opinion, & they are Stimulants -
 Chemists have given the combi-
 nation more perfectly - They
 consist of Gallic Acid & Alumina -
 Astringents, I think are more
 successful given in this

substances - as they are acted upon
 more powerfully by a gastric
 juice - should be therefore mixed
 with some *Sp. Verm.* or green
 mass matter - to defend it
 from its principle - Astring-
 ents readily give out their
 virtues to water & spirituous
 Liquors - The virtues ^{are} given
 out by decoction perfectly -
 Astringents have been recom-
 mended in all states of debility
 - as Cachexia - They have been used
 in Dropsy. They are certainly
 indicated in its first stage of
 this disease - as it depends upon
 too much action in the Heart &
 arteries - I have however used it
 Dusk in a debilitated state of the sys-
 tem after it was of the Lungs. The
 the dropsical swellings continu-
 ed as came on with a Paroxysm
 Astringents have been also in
 Hemorrhage - Gullen - Hemorrhage
 of debility are assisted by Astringents

But in certain Hemorrhages they are certainly inadmissible -
 They have been used in Dysentery when used in a relaxed state they are certainly proper; but as it often depends upon increased action - they are certainly improper - They have been used in Dysentery - It depends on inflammation of the mucous membrane of the Intestines - they are improper - In Leucorrhoea they are generally successful -
 In Diabetes they have been recommended - they often do harm - It depends upon diseased action going on in the Kidneys - It is better remedied by the Laxative - Diabetes depends upon a translocation of Gout to these parts very frequently - heretofore experience proves it - reflect on it - sometimes used improperly in mucous discharges from the Uterus - Bladder - Gonorrhoea -

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Lecture 13th. Dec^r 19th 1871

They have power of relieving of Calculus — Gallens imagine of these Urac acids by having an attraction for acids in of Prussic acid. As not so — carbonic acid relieves this complaint — The strongest ferric acid is dissolved in the of Men and other —

Particular Astringents —

The vegetable kind —

The astringent herbally resides in of leaves, sometimes in roots; but more universally in of Bark —

I shall begin with the stronger and descend to is weaker

1. Bark. The Bark is highly astringent — is used in Larynx — Gallen has used it in Cerebral inflammation & Intermittents — Toasted Acorns have been used in Diarrhoea Dysentery — The Quercus uses it in Erysipelas — it produces a desphoresis — this di-

has certainly a connection with
malignant fevers - it appeared
as a prominent symptom
in the Yellow fever of 1893.
In these cases debilitation is cer-
tainly necessary -

2. Galls. generally formed on
the leaf of the oak - Galls were
used in France for Intermit-
tents - they have an acerb & tart
taste of sugar & it moder-
ates violent constriction in the
stomach - It has been used in
flatulency from relaxation - it
does not produce costiveness.
attend to this Gent: - Dr. Dureau
says all asthenics do. An
Injection of the Decoct of Galls
have been used in Piles also
an Ointment in the same
dysentery - But there are two
kinds of Piles - one depending on
too much, is there on too little
action - In one hand is very
tender in the other is very hard -

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It has been used in Glands by
injection -

3. Gum: Kino. Is a Gum
obtained from a Tree by in-
cision - is a powerful
astringent - It yields its Vir-
tues to Th: Wine - Kino added
to Pulv: Stylicus is most pow-
erful astringent we are accuin-
ted with - is used with Gum
in Lancing of Children - It has been
used extenive German way is -
I have been ophthalamid in
Leucorrhoea -

4. Gum: Guttifer - or Terra
Japonica improperly - It
has been used in Ulcers -

5. Nuc: Nuci. From Persians -
is a native of England -

The Lacus produces a Stylicity
to & Tongue - It produces a
black color with ~~the~~ Iron -

Physicians have used it very
generally, in Calculus - Dr. Fer-
riar has given it in nephritic
Cases with good Effects -

Uva Ursi is as useful as an astringent property. it is in this case serviceable in Cough - I am so much convinced of its Powers Uva Ursi is as Physicians should always have it in his stock -

The Japanese who live almost entirely on Tea, which is a better astringent vegetable, I am informed never have a Cough. If this be true may make of it, something in a very medicinal basis is much corroborated -

October 14th 1831

6. Geranium - a grass near this City - its astringent. is used in Cholera - by Dr. Hand. of Lancaster -

7. Alum Root - *Trichera Americana* - used in a variety of countries in cancerous cases. - its a powerful astringent. The root is applied to sore - was told me as a secret by gentlemen - -

Quercus imbricaria - It has
 been used in Diarrhoea. I doubt
 its Effects - as all astringents I
 think do harm in it - as it is
 a sterile astringent. 9 parts of 10 -
Sanguis Draconis is an inert
 medicinal ingredient its solution
 and renders alum also inert
 by rendering it insoluble -

Alum to Kistner has been used
 in Intermittents is better than
 than Bark - also is *Canella Alba*.
 In Diluvian Fevers Dr. Chalmers
 used has used it with good Effects -
 Externally it is used in
 Gargles - in Low Throat &c - In
 Hemorrhoids - in inflammation
 of the Eyes it has been found
 harmless - a solution better
 than is coagulated alum -

You will find I have classed two
 as astringents under this head
 than Buller. I do so because I
 class I think more properly under
 is head of Tonics -

2. Tonics -

Dr. Buller separates from their Effects, they are analogous in many respects to Astringents -

You will recollect I said if Astringents were Tonics & Tonics Stimulants; but I don't say Tonics are Astringents - I think Astringents - Tonics &c. may be classed under a great head of Stimulants - I believe Dr. Buller that all Tonic are Tonics, but I don't say Tonics are all bitter, ^{as is Metallis &c}

Tonics are Stimulants to the moving fibres - they increase the force of the arterial system - An indigenous dose of Bark will bring on a Paroxysm of fever.

1. Gentian a powerful Tonic used in Intermittents -

Tonic
Others have a peculiar taste
of it most powerful have no smell - when distillation they do not often give out oil. They ~~do not appear to have any~~

exaltia Nervicula -

One of its most obvious effects
of bitter is, they increase appe-
tite and tone of stomach, in-
creasing digestion. bitters really ob-
serve - but they do not act as re-
solutions in increasing of muscu-
lar action of the stomach to pro-
mote digestion. for I say Digestion
is carried on by its gastric juice.

Bitters have been said to re-
move visceral obstructions -
they have also been said
to remove obstructions - as I con-
sider all Bitters as Laxatives
I do conceive that also all
Laxatives may produce ac-
retive Effects - Bitters have been
attributed to produce these Effects
from being blended with astring-
ents: this is not so. as some - for
instance is Emulsion of Almonds
has produced good Effects - it has
no astringency - They will
excite secretion - they are diu-
rhetics in proportion to their

properties - As they are Stimu-
 " They are indicated in a febrile
 state of system - The doses
 no commensurate properties -

They have been used as antihel-
 mintic. The Santoninum has
 been found powerfully an-
 thelmintic. but it requires re-
 duction of destroying worms dis-
 tinct from Bitter Induction -

They have been used in Ulcers -
 in Gangrene - They have used
 in fermentation in swelling, -

Lecture 15. Decr. 26th - 97 -

Some writers say Bitters have
 all a Narcotic Power. Haller -
 Dr. Gullen says some such Effects
 are to be suspected - All Bitters
 long used seem to destroy the Force
 of stomachs - Gullen's Notice in
 some respects true - Dr. Lindsay -
 Mr. Graham upon taking is much more
 much affected as if he had taken of
 some poison - Darker medicines

Structure on of Breast - &c -

They are all universally endowed with a noxious Qualities - as Opium - Lettice - Bitter almond &c. Bitter almonds has produced Stricaria - so has calcareous Earth. we cannot therefore ascribe it to the Bitter, but to Idiosyncrasy. Some late Experiments have proved that noxious Qualities are not necessarily connected to

Bitters - Bitters have Powers of preventing an Attack of of Gout -

"Gullen says Gout is always connected with an Acidic state of of Stomach -

without entering into a dispute here I take it as a fact. They destroy Force of of Stomach" - I don't think with him that Gout is necessarily connected with the Acidity of Stomach -

Bitters have in all ages been warmly recommended in Gout - but this does not necessarily render them useful -

People in London by taking the Bitter in Decanters for Gout were cured in 2 1/2 of Sydenham as an Aphorism -

I am Gout. of opinion that Bitters in the Gout produce bad Effects as

Conjestion in y^e Brain - The late
 Dr. J. Brown, after ^{with the same} ~~recovery~~ ^{aided by} ~~of~~
 Gout for two years; died in a
 few hours illness with Apoplexy.
 And those who use Bitters in this
 manner, die of the same sym-
 toms. They are therefore Gout: Dis-
 mutants - Are Bitters more of use
 in y^e cure of y^e Gout? - It is an
 excellent advice by y^e Ancients
 to beware of Bitters after being
 6 or 7 yrs attacked with y^e Gout -
 It may be said again as an Ax-
 iom "That medicines are useful
 in proportion as they are endowed
 with powers of doing harm -"
 Bitters have been used in Calcu-
 lar cases - Doctors who neglected
 a deterioration on y^e use of astringents
 in Gout - thus found they were all
 useful in proportion to their
 Bitterness -

Letter 16 N. Dec^r 28 - 97.

Pharmaceutical treatment,
 either water or spirits may
 be used to extract the virtues
 of Bitters - The means improvi-

of Colombo - has little effect -
in substance valuable -

Warm water extracts the vir-
tues better than cold - so that
the goodness of its extract is in
proportion to its temperature -
Dr. Bullen says, what is extract-
ed in the first hour - 24 hours
infusions is sufficient time -
Wine by experiment does not
more successfully extract the
virtues more than water - it
is however more stimulating
according to its wine - Drying
heat extracts still more how-
ever a decoction more dis-
agreeable - because they de-
grade the agreeable aromatic
and extract more earthy
matter - they are neither in
any sense as useful nor
as agreeable - I hardly think
with Dr. Bullen $\frac{1}{2}$ by decoction
they are decomposed - Fritura-
tion is another method - it is
a good method - the essence

Decoctions, should not be made in open vessels - as the volatile parts are dissipated by heat - A Digestor should be used -

Infusion more agreeable & better than open decoction - The virtues are better by extraction with proof spirit or spirit of wine - They extract more powerfully, especially those that have an aromatic flavor - Tinctures by spirits, better - They are to be used as often as possible by the spirits &c - on account of consequence -

1. Gentian - many species - I shall confine myself to 2, useful - They are all bitter - They are stimulating - Gentiana lutea - or Yellow Gentian - is one of the most valuable - Both water and spirit extract their virtues - better by spirit - They are antiscorbutic - They have been recommended in debility of the stomach & intestines &c -

It excites & appetites -

Elix. Stomachicis: -

℞ Orange Peel 3ij

Gentian

The yellow Gentian has like all other bitters been found of service in Gout - It is used in Intermitting fevers - Gentian & Galls or with Tormentil. or Oak Bark. renders it more useful in intermittents - It has been used in Leucophaea - & of its Extract a dose - They have been recommended as antihelmintic -

℞. Amara. resembles it. ℞.

Gentiana composita -

Gentiana Gentiana or *Gentiana* - The Leaves and Stalks are used - The Water extract its virtues. water extract its medicinal virtues - Is Antispasmodic according to Murray - Gentian is used sparingly in 3j or 3ij in powder - The Properties of its different Bitters are to purge - It has been successfully used in Leucophaea - Gout &c -

(40)

N. America *hospes* a member
of this class, whose properties have
not been taken notice of -

2. *Quacua* - *amarca* & *di-*
marcanta - 1. *Quacua* *amarca*
is a tree of considerable height.
Dark if it is ^{rather} more powerful, ^{than}
of wood - It has been used in
intermittent and continued fevers -
St. Long recommends it in
Dyspepsy & putrid fevers - in Decar-
tion - in fevers from 2^o to 3^o
is given - In debility from
fever Dr. Lillman. 3^o is the
3^o - 3^o in the - Described
in prescriptions should be always
acceded to. The magis of medi-
cine is attended by different in-
molar medicines in the same
6 Cases - Chronic dysenteries & diar-
rhoea have been relieved with it
Quacua decoction - combined
with Colambus - good -

2. *Quacua* *hemorrhoidalis* - from
St. Domingo - It does not appear to
relieve any urgency - It is

a simple Piller - vertues is
traced better by cold & warm
water - It is used in Dysentery -
not to be used in it early stage -
used in it 3rd stage - Dr. D. Mann
2 or 3 ounces ^{double} with 8th of Laud:
was used in Dysentery ad-
vanced - Dr. Arch Saunders -
we are informed it has been
used successfully in Cholera -
the venia and Colic - &c -

3. Bullb. called some from
Bruce - It grows where Dysen-
tery continually prevails - Bruce
had it Dysentery - it rather directed
him to take an heaped teaspoon-
full ^{of powdered bark} once a day - he was cured.

This a simple Piller - composed of
~~buttermilk~~ ^{vanishing} to it Throat -
It has been supposed to be in Cor-
tex Angustura -

Lecture 17th - Dec^r 29th 1847 -

Ther. Piller -
Minia Etha Trifoliata -
Ther. leaved Marsh. Trefoil -
It has been used in Gout -

Bitter. Limer is a solution of Hops
to make Liquors is Calculus has
increased - Dr. Darwin says Bitter
less promote digestion by pro-
moting an absorption of Chyle -
He says all drinkers are subject
to Gravel - this contradicted - his
supposed to be owing to the Chi-
re it contains -

4. *Faba Indica* - or *J! Ignavia*

This is a most powerful bitter -
this is not a simple bitter - this con-
tains with a considerable quan-
tity of a Narcotic Quality - 3j
killed a dog - It vomits
It has been used in Intermitting
fevers 8^{ij} in 3ij water till
in die - 5^{ij} equal in strength
to 3j of *C. Peruvian* - praised
in Chills - It produces effects
in smaller doses more violent
in Dogs than Man -

5. *Mux Uonica* - this is a dragee -
able with taste - it contains a
large quantity of *Guaiacum* &

reasons narcotic qualities -
 3/4. Made a sound sleep in
 days - It is used in Intermitt-
 ents - combined with Quina-
 - used as ^{an}æthelmentic - Shrivver
 Tincture added to cotton applied
 to haust discharges worms -

6. Fumaria. an infusion
 evaporated. shows a salt - Dr.
 Cullen has used it in cutaneous
 affections - I have used it in
 Leprosy - 3ij ⁱⁿ is day is suffi-
 ent - and Leavis as good -

7. Colombo. important
 Bitter - Native of Asia - not known
 from what vegetable it is procured -
 It is said to be native of Amer:-
 It has a pungent Bitter - It
 antiseptic - It renders innocuous
 says Percival - is trusted Bile -
 useful therefore says he in
 Cholera &c - Cullen says it has
 no such chemic qualities -

Cullen took 3/4 - it increased his
 hunger & thirst - he says it is not the

mutant - it certainly is - it
 kills & Piles &c - In Dysen-
 tery tis most useful in the
 decline of it - no dependence to
 be put on it - Dr. Johnson has
 used it with success in 3j to 3j
 every 3 Hours in Cholera -
 'Tis used in Colic - Dr. Percival
 uses it in nausea & vomiting &
 Diarrhoea of Infants - I have
 found it prevalent in Paroxysms
 Intermittents. tis most useful
 in weak Patients - useful in Dis-
 tressia -

& Matricaria Chamomilla
 or true Chamomile - cele-
 brated tonic - employed in
 Intermittents - Flowers &c to
 have been used by Hoffman -
 Morton - from 3j to 3j - I use
 with it Opials - It is useful in
 flatulent Colic - in Dysentery; but
 useful in Diarrhoea -

9. Tanacetum - Tansey -
 has a strong smell - been highly

(45)
in Gout - a weak Infusion to
Dose every Morning - it was also
used - tis a remarkable Pectoral -
celebrated as *Antihelmontic* -

10. *Artimacea Absinthia* -
or Wormwood - an intense
bitter. It renders bitter is Mell
of Animals & is flesh of Mutton!
On distillation it gives out an
oil - Leaves most powerful
herb - tis said to help an Ran-
color Pains - as Pains in Head
Inflammation Eyes - Lenses
never observed any such Effects -
Inferred in Ale Gullen says intoxi-
cated readily - used in Intermittent
half a Table Spoonful of it mixed
in oil -

11. *Aristolochia Longa* -
celebrated in Ammoniac -
Gullen says used to advantage
in Chlorosis - used in Gout -

Roots A. Longa -

John Gutter & Co Portland

Prouder - Portland Prouder has done
much - killed hundreds -

Lecture 18th. Jan^y 1^{mo} 1798.

2. Virginia Snake Root - or
Aristolochia serpentaria
 longa - Black Snake Root
 was used in some Miasm.
 - The Virginia snake root - is
 a bitter, joined with an acrid-
 many of an aromatic quality,
 - it possesses little astringent
 Powers - tis Tonic - tis Stimulant
 - Cullen says no Tonics are sti-
 mulants - you see Gent. This is
 an obvious objection - Cullen uses
 it in Typhus - P. C. Fever - Dr. Ferri-
 Purghe agrees with Cullen -

Dr. Stollham gave it with evident
 advantage in Intermitents, in
 duaction before is Peruvian.

Dr. de Harmandie in Jersey, used
 it with great advantage in a
 man attended with Catarrh.

13. *Costus Aurantiacum* - Orange
 Peel - tis an aromatic Bitter -
 possesses a volatile oil - it has
 been used with advantage in
 intermitents - 3j Pulver omne Hor.

Leaves of Orange has been used
in convulsive diseases - parti-
cularly in Epilepsy. & in Colica
Pictorum - is said with advantage.

14. ⁿAricea Montana or Leopard
Dane - an acid bitter plant -
used as a resolvent in coa-
gested blood - as internal
bleedings - you will not I
am sure believe it - ʒj to ʒij
in oil - the flowers - It vomits.
It has been said used successfully
in Intermittents - Dr. de Hahn
suggested it in ʒ Roob to be a
specific in Dysentery & Decu-
lida - also in a case of wound
attended with great discharge -
he recommended a ʒj every other
Hour in Consumption -

15. Cascarilla - Croton barba-
a bitter with Acrida - recom-
mended in Intermittents - by ʒ
Bolander of Itall - Cullen &
think it a useful substitute for
ʒj Root ʒss - every three Hours -

Lecture 49th Jan'y 2^d.

All the Tonics I have laid
down have either a Bitter or
an Astringency - or both - They
are generally combined -

More properly Tonic.

16. Peruvian Bark - is an
important article - Obtained from
Cinchona officinalis, a lofty
shrub tree - is a native of Peru
in S. America - It was called in
ancient Peru as is Country of
Cusco was cured by it - and
distributed it to his disciples of
Jesus. Some faintly mark - it
has been called Lapa Bark -

is one of those astringents in
which a Bitter and Astringent
are intimately combined - It
is a powerful Tonic - It's Opera-
tion knows it - Its effects in Dys-
pepsia know it - it acts when
it relaxed vessels is acute in
Gastric pain - In Intermittents it
acts as a Tonic in curing -

I would always succeed in
 in Lament. However the Dark
 a stimulant such as granate
 Gullen gives Emetics frequently
 to increase the activity of the stomach
 as this activity is only
 troublesome symptom. Emetics
 will increase it - As a Cathartic
 to begin to use I would recom-
 mend Calomel: 5th with some
 Mustard: or Canthar: 2j - I would
 always give a few 5th of Rhci
 with the Dark - to carry off stoma-
 chical matters & keep up the ac-
 tion under - When several obstruc-
 tions exist. I would give the Dark
 if the Paroxysm be severe; but 1st.
 there is inflammatory action
 I would use it with it -
 Whether should it be used in Inter-
 mission in Paroxysm - Some recom-
 mend it as near the Paroxysm as
 possible - The Effects of the Dark are
 not deniable - says he - Gullen says 3ij
 just before the Paroxysm - I say that
 the practice of giving it near the

of Paroxysm. (50)

beginning is always ~~unavoidable~~
but by rendering it more un-
derstandable - the attack is inevitable -
I mean as a general Rule - for
when this extremely severe dan-
ger appears near at hand I would
certainly administer ⁱⁿ doses of whole
of Infusion - The Paroxysm
is sometimes attended with stupor
& apoplectic symptoms -

The Dose appears well adapted to
the use of these Lophocarpus tincture;
but I would always use Allen-
gale's U.S. & Purging - This also used
in Permittents. is coming to be com-
mon in Intermittents. viz. Marsh
Miasmata -

Lecture 20th. Jan'y 4th. 1798.

I do not think with many
that the Dose should not be
administered during the hot stage
Neither do I think it should be
used in vomiting & fever, un-
till after Evacuations - This in
the Dose in Symplicia - Some

say is a highly proper remedy
in Pneumonic Inflammation
when combined with a fever
of an interesting kind -

This is certainly improper in genuine
Pleurisy; but I do think is
proper in what is called the Pleu-
ry of the Acute & is there
which attend fevers of an inter-
mitting kind in low grounds &
marshy Lands - It is here is just-
ified. I remember proper - The Com-
mittee therefore be withheld
or sparingly used in the Pleuri-
sis of low grounds - Plague, in
its first stage is highly inflam-
matory - But therefore in its first
stage improper - Dr. Daven. in
America - a pupil of Dr. Syden-
ham's - used Bleeding with
happy Effects - He took 100 ounces
of blood out one bleeding from 180
Persons - & lost only 7. & they were
killed with Brandy &c - This Plague
was produced by a putrefaction
of dead Bodies - Dr. Meadon re-

stimulants in *Plague* is
totally rigid at *Marcha*; but it
was unsuccessful -

In *Yellow Fever*. It was *Syno-*
chus - inflammatory for 3 first
3 days - When these inflammatory
symptoms went off - I used it
Doubt with it happy effects -

In *Acute Rheumatism*. It
Doubt has been used - Cullen thinks
it is only proper after evacuations -
Dr. Relfe gives it Doubt in this Com-
plaint - also has Dr. Saunders; but
with it he uses general & topical
U.S. - It was used by Cullen in
Hysteria Rheumatism -

In *Gout*. Dr. Sydenham recom-
mends it. Dr. Gardiner has known
it produce fatal effects -

In *Cholera* - when it comes
on with a tertian fever it is
proper -

In *Lymph* - some say it is
a disease of acidity - I do not
believe it - it is in the first
stage inflammatory. It Doubt of
Cause must be improper; but

These symptoms are well - if Dark
is certainly proper - Phrenitis gene-
rally attends the Typhus -

In Exanthematous fevers - they
are certainly inflammatory for
a considerable time - When the Small
Pox will not rise and fall - but have
a sunk & lead appearance. The
Dark madness is happy Effects. its
increase is circulation & madness
well formed & pallid Particles is
a good matter - Dr. Morison re-
commended it - combined with
album - Marsh's regimen U.S. -

Erisipelas - inflammatory - is con-
nected with Plague - I saw it com-
municated by humors with it
Lancet. ... inoculating for small Pox.

Lecture 21st Sunday 5. - 98 -

In Dysentery - Is inflamma-
tory - The yellow has appeared in
some of Dysentery - Dr. Morison.
gave it in Dysentery in a state of
apoplexy - Elshorn used it - Dr.
Gunn gave it successfully - Dr.
Cullen thinks it good in advanced state
of Dysentery -

In Catarrhal Affections. It is certainly hurtful. Gullen however recommends it with the form attending is interesting. There are some Catarrhal cases which are entirely natural. The obstructions of Perforations considerable & and discharges from is Lungs considerable. Dr. Gullen recommends -

In Hemorrhages. They are certain and natural. In it action. Back is improved. In it Pains is improved. The Menorrhagia appears to be of this kind. and back is improved. In Menses Greenish or bloody Urine; It has been used. As it often depends on Laxity of the Kidneys -

In Phthisis. as it often depends on an inflammatory action. Back has been found hurtful. Bunge & Moreton recommends it. Sympson recommends. & Gullen also in some instances. Vide Hecce den on Heelie Fenn. in medical Transactions. In Phthisis from

Leech's Bark has been found
useful -

In Gangrene - decided into
Gangrene with & Gangrene with
out Inflammation - I am of
opinion that Bark and all other
stimulating medicines are hurt-
ful in inflammatory Gangrene -
But when it depends on debili-
ty - Bark is certainly useful -

In Scrophula & Pectus - the Bark
has been said to be useful - I
will say, that Scrophula frequently
depends on too much & too
little action - you will know
what I mean to do -

In Spasmodic Affections -

When there is too little action
or Spasmodic may be of service;
but on too much action the San-
ctus is the remedy - Titani-
tis certainly frequently occurs to
stimuli - as Stramonium & the diffe-
rent narcotic legals. In Chorea
Sanctus is used. It depends upon an
increased Motility of the Legation -
here Bark & Iron are recom-
mended -

In Chincough - Gullen thinks
in a advanced stage as when it
depends on Rubeola. Dark is useful

I think the Chincough is a febrile
disease. Therapeutic indications
are to be employed. Dark &
Castor have been used, combined, &
succeed, in this disease - Dark exter-
nally should be applied only dur-
ing a Intermission of fever -

In Asthma. it frequently de-
pends on too much Action. Ther-
apeutic improper - but in a hysterical
Asthma it is useful -

In Hysteria.

In Melancholy. in a low
state Dark is good -

In Scurvy. it has been used.
Pneumatic Chemistry, that touch is
has lately illuminated so large a
Part of is Remembrance of medical Sci-
ence. has I think ^{improperly} made Scurvy an
kind on too little Oxygen - here
Dark is an improper & given us
glibly are the modern medicines -

In Jaundice - Dr. Gullen. has
used it successfully - Probably it

acted by heating - as an Iaculidii may depend on activity of $\frac{1}{2}$ Intestines. Dark may certainly be of service -
In worms. Dark as a tetter is an Anthelmintic -

Lecture 22nd Janry 9th 1798 -

7. Angustura Bark - a recent acquisition, to $\frac{1}{2}$ Malacca Med: supposed to be the Bark of $\frac{1}{2}$ Breccia - is unground - There is a variety of color - is intensely bitter and aromatic - has no peculiar odor - Gives a strong Tincture to $\frac{1}{2}$ of Wine & Alcohol - acids act upon it but slowly - It contains Resin - Gum & Oil - is powerfully antiseptic - Extract of it has been used in various $\frac{1}{2}$ is resinous - Bark of Angustura heated - and used in decoction - in doses of $\frac{3j$ - It has been used in sporadic dysentery and diarrhoea - In Intermittent fevers - $\frac{1}{2}$ to $\frac{1}{4}$ - a dose - its use is apt to men off the Intestines - used in Nervous fevers - In gonorrhoea & ulcerated Lores Throat & Scantaria

22
This medicine has been found
serviceable - In fainting & is
useful - In dead-sacks of urine
As a general tonic it has been
asserted to be superior to any other
I don't believe it - It doesn't not
help by experiment any ad-
vancement - In Chlorosis - it has
been found serviceable - In Has-
tin caught - but I say not in
all its stages - only in the latter or
advanced stage - In cases of
Chlorosis this Tonic is preferable
to J. P. P. P. - as it does not
run off of Pains & so readily -

18. Magnolia! A Linnaean is
said in Virginia of a species of
this Tree called Cammellum Tree
in their notation - I think the
Angustifolia is a species of Magnolia -

19. Willow or Salix - It is a great
great astringency - is antiscorbutic.
Antiscorbutics should not be atten-
ded to - It has been used in East-
Hemorrhages & obstinate leucorrhoea -
I doubt its power - Dr. Blane
used it with success in Intermit

tends — 27 to 28 July 412 have
in it Intermittents — I mean here
of White Willow — The Inhabitants
of Kamakulka used it as bread —
The Sainy Latibolia have been found
everywhere in Intermittents —

20. *Esculus Asphochas* Linum
or Horse Chestnut — recommended
in Intermittents — 32 July during it
Intermittents — In some cases
it is said to act as a Purgative & in
others as a Tonic — In it there is
a herb some to gather their Barks —

21. *Swietenia mahagani* — or Mo.
hagany —

22. *Loa-wood* *Cornus Florida*
Dr. Cooper has found it & some
in Intermittents — he found it of
promising nature —

23. *Red Willow* — *Theriacal* —

Lecture 23th Jan'y 11th 98.



24. *Tea* — a celebrated article — *Thoe*
Dorea & *Thoe viridis* — I feel my
self unable to determine upon an im-
portant Question, whether this Herb

is more of service^{or} of Injury
to man - The flavor of the Tea
is not their native odor. It is
given to them by other Plants -
The narcotic and poisonous qua-
lities are destroyed by roasting.
The Tea is said to be of commo-
nent service & in Calculus -
It is said to be a preventive of
Calculus in Japan - It possesses
an evident astringent quali-
ty. It is considerably antiseptic.
The infusion of green Tea
produces an insoluble Ex-
tract without oil - The Japane-
se are so well acquainted
with its deleterious qualities
of Tea, never drink it within
12 months after gathering - The
Flavor of Tea produces Ver-
tigo - Convulsion - Palsy & Death -
Bad Effects of Tea have been attri-
buted to its quantity of warm ma-
ter that is taken in - Gullen de-
nies it - Dr. Whipple says it pro-
duces, flatulencies. - It has

produced lots of memory - Hila-
 rity &c - These different affec-
 tions I believe are chiefly owing
 to peculiarity of system - I cer-
 tainly Tea contains deleterious
 qualities - The more odorous
 is most heartful & vice versa
 - Infusion stronger than Deco-
 tion because in it latter is more
 volatile parts evaporate - It
 has been said to blacken in Teeth -
 It does not appear certain -
 Tea has been said by Dr. Walker
 of Leeds to induce Atrophie
 Pericardium in 5 females - I am
 rather of opinion this disease was
 owing to 5 deficiency of nour-
 ishment - as we know Tea con-
 tains little -

Some have said the Properties
 of Tea are entirely dependent
 on 5 degree and heat - Dr. Per-
 cival supposed Tea possessed an
 active property - I suppose to
 suppose the properties in some
 respects of Opium - i.e. stimulant
 & 5 5 Pulv. Thea virens produced

eruptio - nausea & diarrhoea -

Lecture 24th. Jan'y 12. 98.

Metallic Tonics.

1. Iron. It appears to become a useful medicine after being acted upon by Acids - The Acids in the Stomach convert Iron into a black Calx - Such an Acid I believe to be frequently present - when not, the gastric juice will dissolve it - Iron was supposed to possess different specific Effects - It is not so - effects are all Tonic -

In Haemorrhage - in action Haemorrhage is very impeded - Epistaxis is particularly of this kind - also is Hemoptoeis - Haemorrhage in young Persons is generally inflammatory. Therefore Iron contraindicated - The same disease in old people is generally depending on debility - Therefore Iron is indicated in all Cases depending on debility as a Tonic - In some

98. Iron is a valuable medicine.
In Intermittent Fever Iron has been
used.

In genuine inflammatory Fevers
Iron, according to some Physicians
will be improper — Iron appears
to act upon the solids of the
stomach. That it certainly has
an effect upon the sanguiferous
system — Iron is certainly taken
up by the blood vessels, as such
blood is certainly more fluid —
Iron has been found in the Lac-
teals &c. — in saline state

Doses of Iron, should be begun
small & increased gradually —
Dr. Cullen prefers ʒi of Iron,
we agree with him — The filings
have been used, they are more
active & generally affect the stomach —
from ʒi ʒ to ʒi ʒ.

Drink — such substances as sub-
sist the body with water & non-
nutrient — Water is the chief used
for drink — and all matters relieve
thirst in proportion to the Quantity
of Water they contain —

1. Water. Is it liquid taken in to satisfy the thirst of man & supply the body with fluids - This fluid is well suited to its economy Water is never found elementary pure - always impregnated with various matters - Waters are divided into hard & soft - The hard is generally impregnated with Lye - even to Lime - Water impregnated with it is Lime generally harder when first used - Water has been drunk of in carious Limes -

Lecture 25th. Jan. 15th 1798.

Water to be obtained from clouds is distilled - Acid water is said to be of pure water - more so of snow or rain - Acid water is so pure as to yield test of the actual matter to it Gallian - Snow is said to be & is long known to fertilize the ground - not as some say owing to nitrous air but contain a large quantity of earthy matter - Snow water is liable to sublimation

arising to a Quantity of vegeta-
 ble & Animal matter - also dew
 rain water - Dew water is ex-
 tremely impure, containing a
 very large portion of animal
 & vegetable matter - most dan-
 gerous to Vegetables - Hard spring
 water the most impure of any -
 Hard water exposed to the air be-
 comes soft - owing to the depo-
 sition of earthy matters - Earthy
 matters are deposited by exposure
 to the sun, hence some cisterns
 are water "diminishing" & of earth
 increasing - Guitan, a disease
 of the Thyroid Gland - a species
 of Struma - it commonly at-
 tacks adults. Those who are ill fed.
 it commences with dullness &
 stupidity ending in Idiocy -
 It appears to be of Brassicaceae
Bocium - & - The Author says tis
 a disease of Switzerland called
 Bernice Gutteris - he says tis more
 frequent in females - the Limon
 hangs down in form of Pear - some-
 times contains matter, at other

times becomes quite hard &
 cartilaginous - Brancocle
Sauornica - They are only in
 my opinion different grades
 of the same disease - Goutar.
 I shall consider as to prevalence
 in N. America - I observed this
 disease in Indians in Ohio
 & People from Connecticut
 I was informed by Dr. Hopkins
 became affected by it by settling
 in Ohio - An old Indian in-
 formed me that it was not
 unknown among the Dutch
 in the West of New York - From
 my own observation this dis-
 ease prevails much more
 frequently among females &
 I also prevail there among bat-
 tle & drunk - There is a Run there
 that cattle get affected by after
 drinking it - This water contains
 a large quantity of Lignin -
 This disease subsides in cattle

during winter - I observed it
 among men in a tent near
 the head of the Mohawk River -
 This disease altho it prevails very
 extensively in N. York - prevails also
 in Vermont - in Pennsylvania -
 in the last Place, Dr. Thompson in
 Pitt'sburgh informs me it then
 affects children as well as adults -
 The People whom it affects uni-
 versally ~~associate~~ this disease to
 the Quantity of water they drink -
 The People in these tracts are
 situated with a calcareous Earth
 altho' there be facts - yet this di-
 sease prevails where Lime stone
 is scarcely known - and this com-
 plains this disease very frequently
 known in those places where Lime
 exists in its greatest abundance -
 The disease has been ascribed to Snow.
~~Water~~ - but this disease prevails
 where snow is not known & it
 does not exist where snow is in
 greatest Quantity - a writer lately
 ascribes it to cold water - it can be

Mr. Foster attributes it to Lee water
being deprived of fixed Air —
This disease has been attributed
to water from coal Mines —
but I think not so —

Lecture 26th Jan'y 18th. 98-

My opinion is that the Gout
is produced by Galeaceous Earth
impregnated with water. There
are exceptions; but they are few —
Some suppose this disease is pro-
duced by Air passing into the
Synovial fluid from the Trachea —
Gout of the feet. I have been cured
it has been cured — perhaps because
not cured for enough. I have
heard of a case perfectly cured
by I. — The alk Potash has been
used with success —

3. Instantia or Stimulantia —

Dr. Darwin says they are all those
things that increase of action
by Irritation motions —

(698)

Dr. Duncan says they increase
absorption &c — They are those
substances whether externally
or internally ~~excite~~ excite of system
into action — I am still of opi-
nion that Loxies are considerably
stimulant — for instance Ench Rad.
Cortex Aurant. &c — Stimulants says
Dr. Duncan are absorbents — En-
belice &c externally increase ab-
sorption — internally — P. Darnits —
Purges &c. increase absorption —

1. Opium. This I will leave
to you as a powerful stimulant.
It is not so powerful as
some other sedatives — Opium
is of the nature of a P. Darnits — & of
the same nature — In practice
from Ex. St. Loxies &c — reduced
to a powder is a dark brown
which I believe Opium is generally
turned into looking to an Extract —
Duncan is much more when obtained
by incision is of P. Darnits & insipid

The Juice - Incisions made
by an Iron instrument, says
Dr. Greenke, turns of a dark
black color - this is owing to
the Gallie Acid of the vegetable striking
black with Iron in the instru-
ment - . . .

Lecture 27th Jan'y 19. 98.

Effects of Opium on the System
in a healthy State - externally
as in Eye. Now - demonstrated ex-
ternally - it produces Pain - Heat &
Inflammation - succeeded by
exhaustion of Pain - Dr. Greenke has
used a watery solution of Opium
in his Eye - it was followed by
different symptoms of Inflam-
mation - he also crushed a Pow-
der - it acted like weak Snuff -
- Injected in the Nethra, it increases
inflammation & then it subsides.
I have used it in such manner
in Gonorrhoea - it increases the
secretion & should be laid aside
in that disease - Greenke applied

it is sound skin - it produced no sensible Effects. Others say, it acts with all its effects given internally - Dr. Morley it is of no use externally - Dr. Cullen says it may not only be given by Mouth or Injection; but applied externally with powerfully good Effects. Dr. Cullen thinks it best applied externally in form of a Liquid - I myself, am confident it acts powerfully externally - my ever venerated Friend Dr. Pottinham was continually relieved from Pain in his Breast by this application - it produced Continence. Does it act by being absorbed? or does it act upon the Nerves & muscular fibres? -

Opium produces the following Changes in the vital functions - it increases the frequency & fullness of Pulse - a degree of heat - In large doses it increases respiration, produces stertorous breathing & ends with all the symptoms of Apoplexy -

all authors mostly agree in
 Opium increases in Circulation
 particularly of Pulse, that unfor-
 tunate Genius Dr. J. Brown -
 Dr. Brown's Experiments in my
 Opinion successfully prove the
 exciting properties of Opium - They
 uniformly prove that if Pulse was
 either increased in frequency - full-
 ness or strength - Brown was con-
 vinced in his Experiments. he saw
 the Opium in a exciting solution -

I am therefore emboldened to declare
 that the primary Effects of Opium
 are Stimulant - Attention should be
 laid from its time of swallowing
 of Medicine, to its Pulse - its from
 neglecting this Precaution that
 that we find so many deca-
 tures in our Treatment of all Medica-
 tions. This effluence most evidently evince
 the State of the Body - Opium in
 cases does produce genuine who
 sleep - The Lancet is its Remedy
 as I have frequently experienced -
In the Natural functions - I en-

(73)

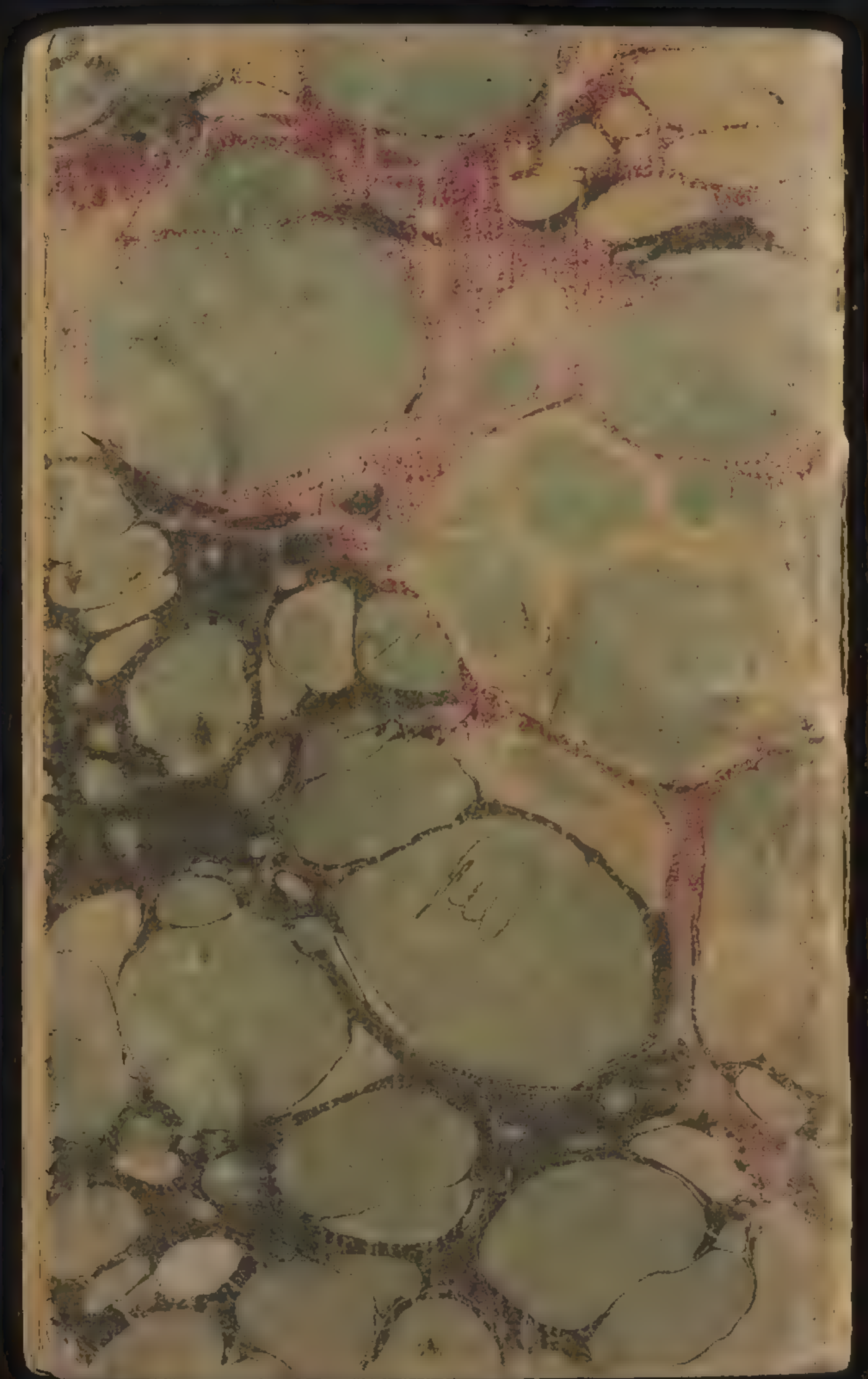
means the secretion of bile &
all other secretions - It gives
appetite - Dr. Gertanner says they
are nourishing - His speculations
are infamous nonsense - They
are not nourishing -

Ferris No. 1.

(vide No. 2.)

“ ” “ ”

(74)





Ms.
Hutchinson Collection

No 2

100

Gruber number

Lecture 28th - Jan'y ... 1798.

Mamm. continued - with its
 its an H. Natural Functions
 - digestion - pro-
 duction of milk in large ones -
 small ones, meagre. acts by unde-
 rstanding, which canal continues
 the few Bolus as it acts by
 - they are - In this case
 compare the more to be in a
 that that they make, then
 - Lord's - Excretion in
 - in animals, such as Michael
 - then in - Effects only pro-
 - and at first in - Excretion
 of the animal, made by the
 in - of, - indeed
 can be - as on the
 - - Continued by
 very necessary, close of the Ovaries
 detaching warm Blood - Dr
 says that he observed the
 of Ovaries in Persecution -
 at observed the same accu-
 - to observe

Lecture 28th - Jan'y .. 1798.

Opium, continued - with its
Effects on the Natural Functions.

- It enervates - digestion - pro-
prietion stops in large doses -

Low state, meagre - acts by unde-
rmin^g ~~causing~~ ^{the} canal bordering -

The two Bile ducts as it acts by
a Laxative - They are - In this case

I suppose the more to be in a
torpid state than they may, since

it is the Lord's - Excretion in

Drugs in Animals, as Dr. Meadels
shows - the effects of Opium

are not at all the same as in
by the same manner as by the

skin - It is indeed

by an Laxative - as on the

skin - It is also acted by

drinking warm water of the Opium

any delicate warm Drink - Dr

Haller says that he received the

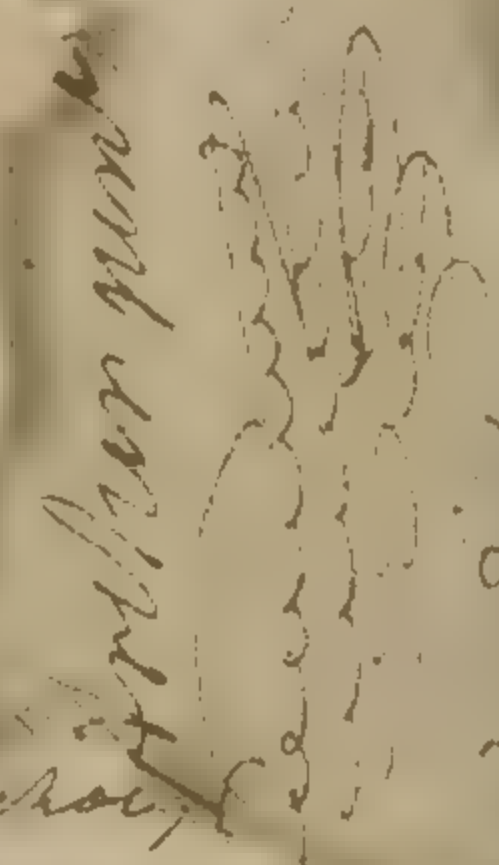
smell of Opium in Perspiration -

Dr. Rush observed the same accu-
rancy - It is to observe

This - as it shows it enters into the
Composition - I by Experiment has
been known to increase of secre-
tion of Bile - Dr. Boerhaave has mostly
observed that the ... as
all other ... in Ab-
sorption - In ...

It renders as ...
this dilemma ...
it increases ...
is anal ...

The latter
appears -
dangerous -
as ...
Caution of
could ...
to ...
as ...
In Melancholia ...



...
Dr. Boerhaave of Aleppo has frequently seen
Primum, taken with Aromatics, to ...
Quantity of 3ij in 24 Hours - The Quan-
tity of 3x has been given in the same
of 24 Hours ...

large quantity of Opium & with
 it, a quantity of acids - I shall
 mention hereafter that the use
 of this Medicine must upon the
 Effects of Opium - The Turks go to
 decoction of Opium in Constantinople,
 with Hales, meagre - & dreadful los-
 ing countenance, when after swallow-
 ing a few Boluses about the size
 of Olives, they are made to ges-
 tulate in the most ridiculous
 manner - when they make home
 as happy as Lords - Experiments of
 Opium on Animals, evidently pro-
 ved its strong effects -

Lecture on Opium, by 25th of 8 -

To exhibit a narrow
 view of the nature of
 Opium - & its effects -
 Opium is most certainly sti-
 mulant - Opium is a powerful
 stimulant - Opium is a stimulant of the most
 different kind - Opium is used
 in low state of Typhus - in Inten-

ments - In the Confluent Small

Prof. Dr. Lydenham considered him
 considered as the greatest
 Cardinal, that ever had been dis-
 covered - Dr. Haller, considered its
 Effects in every respect similar
 to Spirits. also Dr. Huxham -
 Dr. Darwin places it as I have
 done, at the Head of Fruticosa.

Pruritus by all is considered as
 absolutely harmless in Ren-
 ery & other inflammatory diseases
 - now if it were declarative it
 must be useful - Dr. Young very
 judiciously says that it is in all
 diseases proper, Pruritus
 remissus -
 Pruritus is a Pain -
 - in which numerous Pain
 is certainly useful - altho' Pri-
 us does relieve Pain if an
 inflammatory nature, this
 does not prove it to be a
 declarative - for the Pruritus does

at first increase the Pain - this
only when the Torment or accu-
sation Effects approach that the
Pains are relieved - When Nature
renders the use of Opium neces-
sary - the serious Effects will only
be prevented (when Opium cannot
be had) by the acknowledged sti-
muli, such as Spirits - Wine &c.

The primary Effects of all Stimu-
li are to increase the Excitement
of the System - the last Effects of
a large Dose will be a Torment
or increased Pain - ~~caused~~ by the
celebrated "Law of Indirect
Stimulability" - Stimuli are not
anodynes - ~~but~~ they are
stimulating & so - they are
so in proportion to their differ-
entibility - for the more powerfully
excited its action, the more
there be an Exhaustion of Exci-
tement - & contraries with

Stimuli of the Auricle kind -

1. Opium is a powerful Stimulant.
2. It is suddenly stopped.
3. Is quickly Exhausted.
4. To remove the Excitement.
5. and its secondary Effects in large quantity are to produce immobility -

Lecture 30th. Jan 7 26. 98 -

Analysis of Opium - This is a Gum - Resin - The mode ascertaining the presence of Gum & Resin - is to dissolve it in Et^r & some in Water - Then in an equal quantity - The Opiumous part is distinguished by examining the Gum - more Part is the Resin - Dr. Brewster took $\frac{1}{4}$ of the resinous part of Opium & increased his Pulse & made out all the Effects of Opium in common - He took $\frac{1}{4}$

Of the Gum. it produced no
Effects - & it raised his Pulse
some ~~more~~ beats. & produ-
ced the common Effects of
Opium - Thus altho the
Gummosus Part is less power-
ful than is resinous yet in
larger Quantities it has the
same Effects as is resinous -

Dr. Grewk Thompson, in-
properly concludes that the
Qualities of Opium reside ex-
clusively in its Resin. & is
the Gum or ~~the~~ ^{the} Resinous do-
lution in ~~the~~ ^{the} ~~resin~~ ^{oil}. I say
Dr. Grewk & ~~the~~ ^{all} the Physi-
cians are wrong who contend
that ~~the~~ ^{the} ~~oil~~ ^{oil} ~~is~~ ^{is} ~~the~~ ^{the} ~~active~~ ^{active} ~~part~~ ^{part}
resides in the resinous part of
medicines, ^{exclusively} ~~the~~ ^{the} ~~active~~ ^{active} ~~part~~ ^{part}
Opium produces no Effects. The
active Properties are perhaps co-
stituted in

1. Pus contains even
 Pus - a Salt & earthy Par-
 ticles -

2. The Pus & Pus are near-
 ly in equal Quantities -

3. Pus contains matter of great
 density -

4. The Separation of Pus's
 different Parts can be of
 no service -

In Intermitting Fever.
 Synocha & Typhus in their
 first stages are evidently in-
 flammatory. The com-
 mencement is evidently
 does Injury. The Inflam-
 matory stage is different in
 continuation according to
 the stimulus. The more violent
 the stimulus is more violent
 & short the inflammatory

Stage - In general I have
 said mine should be prefer-
 red to Green - however this
 loudly called for in those
 cases of Delirium, which at-
 tend the late stages of fever
 when inflammation along with
 is removed and delirium is
 manifested - Dr. Bellchurst long
 ago recommended Green in
 the late nervous fever - Dr.
 Campbell reviewed the good
 effects of this valuable medi-
 cine - Green to Campbell
 has been known to have
 a particular determination
 to & than Dr. Campbell's same
 as Red Wine & Colours

Of Green: This & is

Green Gambh. & is

Great Relief - In the advan-
 ced stages of fever when con-
 vulsion twitches attend

(85)
Dream has happy effects -
rescued in season of sleep
from dream -

In Yellow Fever - when Pain
attended, Dream was resor-
ed to - its effects were injuri-
ous - however when there was
an insupportable state of the Ho-
mor, Dream & often was
of great service -

Picture 31^{me} Jan^y 29th 98

In Intermittent Fevers. Galien
stimulated & gave Dream with
success, a few hours before
the Paroxysms. Dr. Boerhaave
gave it only an hour before
the cold stage - Dr. Lind how-
ever gave it, after the Paroxysm
has passed - it shortens the
fit - produces a Perspiration
& brings about a refreshing sleep
Dream in the hot fit says he
will not increase the, tho'

it will not remove it.
 If there were a delusion, Opium
 should be delayed - after
 which it knows of great service - altho' I cannot find
 fault with Dr. Lind, yet still
 I would not always follow
 him - Dr. Grunk recommends
 Opium before the Paroxysm
 from 30 to 60 Drops - Dr. Stork
 of Vienna says it is very injur-
 ious in Intermittents -

Opium however is of service
 when given with Bark -

In Phlegmonia - These
 complaints are certainly in-
 flammatory - It is certainly
 proper to excite Inflammation
 into Action and Purification.
 In the first Stomachants are
 generally improper - in the
 latter they are proper - In the
 action first when in the latter
 stage - Opium is proper very

producing a healthy & new
Excitement & by promoting an
absorption - Dr. Cullen recom-
mends Opium in the suppura-
tious stage of Inflammation -
at which times he believes
Inflammation to be removed -

Dr. De Hahn recommended
Opium combined with I. in
Pneumonic Inflammation -
also in dry Catarrhs of the
Lungs - Authors however generally
succeed their use by Expec-
tations - In the latter stage of
Pneumonic Inflammation
Opium combined with mu-
cilaginous drinks are of essen-
tial service - I believe is
a good rule that Opium is
of service in inflamma-
tory affections when not
succeeded by sweating -
In Catarrhs of the Lungs, after
expectoration Opium is of

(1887)

real serum -

Mist: Musculasimora -

R. Elex: Purgorie: 3j

Antem: Vin: 3j

Quin: Acalic & Liquorica 3j

Ac: Tartan: 3iij

Boylean magn: R. ij Ann: test Hor:

In Rheumatism - Acute &

Chronic - In the Acute after

the inflammatory symptoms

are ^{nearly} subdued. a Suction

should be used. Puls: Doven

is well adapted -

R. Theae

Quin - a 3j

Sulphat: Alkal: Ueg: 3iij

q. x or xv every 2 or 3 hours un-

tille a cathartic is produced.

Cullen says it should be taken

after sleep - to drink no Liquid

until evacuating is produced,

after which the Patients should

drink freely of warm drinks -

Dr. Smith has lately described an
Acute Rheumatism with Irri-
tability - which came on in

meat & salts & after; chronic
kind - Pull: E. P. - near of
service -

In Esorb. - Quercum can be
of little service ^{when in Esorb.} Dr. Brown
& his followers considered
it as infallible. I used it
much so - In the irregular
Esorb Quercum is certainly of
great service -

In Exanthematosa - I. Small
Pox - when mild and distinct
Quercum need not be employed
unless complications come on -
In confluent small Pox, when
the suppuration stops, Quercum
with Bark is of great ser-
vice - It is however seldom
to be given before the 7th day -
In the secondary fever, Quercum
should not be used, but sh^d
be treated by Evacuants - In
this fever when a diarrhoea &
inflammation Dr. Moser says

There are fatal symptoms - his
 observations however are con-
 trary to those of Doan & other
 Physicians - 2. Measles -

This disease should be treated
 with ⁱⁿ Lancet, cool air &
 Purgers - Opium should by
 no means be employed - even
 for the Cough which attends
 unless when far advanced
 should Opium be used -

The diarrhoea which attends
 this disease should be atten-
 ded to - Milk I have found
 of most service -

Lecture 32^a Jan'y 30th 98 -

In Peritonitis - In it
 active kind. Opium as well
 as all other Stimulants are
 improper - In it Purgers &
 Opium is highly serviceable -

The management of Periton-
 itis is a very nice thing -

in 19 of 20 inflammatory
nature. U. S. Bleedings are here
rather. Epistaxis, is most
certain kind. common U. S. —

Hemorrhages of Women
from construction of uterus
menstruum has been found
curable. In Hemorrhoids.
menstruum has here acted in a
tend - generally inflammatory.
tary -

In Dysentery. Menstruum is
this disease is so well
established & so well known
even to a student of medi-
cine, that I need say no-
thing concerning it -

In Tetanus. Menstruum has
cured this disease. 8th 1500
menstruum given to a man
in 17 days & cured the
disease. 2000.

In Hydrophobia - This
 I believe generally fatal -
 This disease will arise
 from the cause than
 by taste of a rabid animal -
 many vegetables - Hottel snake
 &c. will induce this di-
 sease - The cause of this di-
 is certainly Stomach - U.S.
 &c are in remission - There
 are are two cases when
 the Patients live 190 3. Days
 in two days - Nuyent
 relates a case in which he
 found Opium successful -
 Dr. ^{Darman} Darby is in fact I believe
 who used U.S. in this di-
 sease - There are two stages
 of this disease - The latter stage
 Opium is successful -

In Chorea I taste Opium

(92)
is highly curable -

In *Epilepsy* - Loss of Mind
has been blamed for causing
this disease - This I cannot
assure - This complaint is
certainly owing to a Pletho-
ric state of the Blood vessels.
Cullen says Opium will
not prevent these fits, but
on the contrary being so -

When this disease depends
on nervous Irritation, Opi-
um is highly curable -
It is *Acute Epileptica*. Opi-
um has perfectly cured -

In *Palpitation of Heart* -
when an organic affection
no medicine will cure -
In this case it will be
of service -

In *Asthma*: This di-

(874)

are very frequently de-
rived on a long-term in
of lungs - Quercus has mo-
derated the disease in small
doses - but never cured -

In Pertussis - in the latter
stage Quercus is very ser-
viceable -

In Pyrosis - This said to
be excited by an acid,
salted meals - cured by fresh
meals & milk - Quercus has
moderated a bit of it, but
never removed it -

In Cholera - when from
the Prime &c. - you find it
to be inflammatory. you
will refrain from this
medicine - Dr. Brown
began to lose his reputa-
tion in Edinburgh first

by giving this medicine
early - In the Spasmodic
Colic Opium is servicea-
ble - In Bilious Cholera it
good after Evacuation -

In Cholera. It is well known -

In Asthenia. as it often
depends on a plethoric
state of system this Me-
dicine is hurtful - but
when depending on a Mo-
rality of nervous system
it is useful -

In Mania. Authors say
they have sometimes found
Opium serviceable; but
more frequently hurtful -
Large doses have been given
in Cerebral cases - Eructive st^h.
in given in Cerebral cases

(26)
to have Effect - Perhaps is
best method of treating Mania
from ~~excessive~~ ^{excessive} Leucorrhoea, this
remedy should be given in small
repeated doses -

In Gangrene. one hundred dr.
drops on Inflammatory Ac-
tion. heartful. when de-
pending on stentility is, ^{or}
other should be highly useful.

In Ulcers. it has been good.
In Syphilis. Ointment by it-
self will not cure the
disease. but it is unde-
rstand much more accom-
plish by combination with
Ointment -

Lecture 33rd Feb'y 1st 98.

2. *Hyoscyamus niger*. Black
Hellebore - Leaves, chiefly used
or an Extract of the Leaves - a

Extract may be made from
the seeds & an oil may be
expressed & equally powerful.
The analysis it yields a Gum
& Resin - This article has increased
by the Effects of Gum - and by
it is always laxative -

Dr. Boerhaave says it is ss^{ij} - ij - in
in oil - he mentions as far as
 ij in oil - used it in Can-
croidum Ovarianum - It produ-
ces sleep & more uniformly
than even Gum - It produces
sleep - sweat - vertigo - heart-
ness - hunger - increase of Urine.
It - In Cholera when it is pending
properties of Gum is impres-
sion - I have employed Myosy-
sma with much more ad-
vantage -

In Chordée - ss^{ij} in oil -
also ss^{ij} or ij in oil -

(98)

The active properties of Herbaria
as well as all other vegetable
Poisons, are rendered inert by
the vegetable acids - vide Med.
Comment: Edinburgh. -

3. Stramonium Datura -

It seems to me an universal
stimulant - It increases Circula-
tion - excites - urges &c - vide
Dr. Cooper's Inaugural Dissertation -
Dr. Stokes recommended it in
of Extract. in Epilepsy - Mania &c -
Berges has given it success-
fully in Mania - Delirium from
Puerperal fever - & in Melancholia
- When taken in large Quantities
produces Delirium -

4. Aconium Mactatum, Cicuta.

much extolled in Cancer - It is
titled to much praise - M. Latta
in his Surgery. has related some
unusual Cases of its suc-
cess - a Bath or application of
of Decoction has been applied

to Cancerous affections - This medicine is used very successfully in Scrophulous. It is likewise universally successful here - given in some cases as far as 8th Hy in 3 drs, in Extract - It never produces any bad Effects - if they do tis not the medicine -

In Syphilis - Mr. Hunter & Orell have used this medicine with good Effects. Indeed in all Gun Wounds attended with Infection tis valuable - a French Gent. has informed me that Herlock universally produces Salivation -

Lecture 34th. Feb^y 2^d 1798

5. Camphor - Tis obtained from different Shrubbs. but particularly from the *Laurea Camphorata* in Japan - Camphor is insoluble in water, unless

Thro' the intervention of a Me-
cilage - There is an used Cam-
phor, which produces nausea.
This is not the proper Camphor.
Dr. Crawford used the Arabian
Camphor with Peruvian Bark
successfully in Intermittents -

Camphor is soluble in the acids.
with Nitric acid it forms
the Camphoric Acid —

Camphor produces Convulsi-
ons in Piss. Mice, if placed near
them - If placed with Frogs, it
excites Convulsions & death - On
warm blooded animals, as
Birds and Quadrupeds - are
violently affected by this substance.
Producing Delirium - Convulsion -
Hydrophobia in Dogs - increased
flow of saliva - The violence of
these animals which were de-
stroyed by Camphor, showed no
defection, every mark of Inflam-
mation - It is an unusual sti-
mulant - The active properties

of this medicine resides in its
volatile Particles, and act on
the Brain and Nerves - Expe-
riments show that this med-
icine destroys Irritability - is
absorbed into the Blood -

When in Human Body, Camphor
produces - Vertigo - Eternity - dim-
ness of sight - Nausea - increased
force of the Pulse - Some contend
for its being a sedative - but
my own experiments have led
to see a stimulant - it first
produces a colic - Camphor
promotes vegetation - here it is
tenderly as a stimulant -

In Nervous Fevers, Camphor
has been long used - Sir J.
Pringle found it to be Anti-
septic - It was used in what
are called Putrid Fevers - It pro-
duces a deaphorosis -

In Gangrene. Camphor has

long since been used - Quarin
says, if injected in such Cases
in the skin, it is exceedingly of
much service. —

Lecture 35th, Feb'y 5th 1798.

In Confluent Small Pox.
Camphor has long been re-
commended. & has been sub-
jected to distemper & Contagion.
In said Camphor applied over
is Eyes will prevent the
small Pox falling there by

Inflammatory fevers - some
have used Camphor, when
is a supposition of its refriger-
ating properties - tho it must
be observed they used Cathar-
tics -

In Purpuræ Fever - cannot
be proper -

In Rheumatism. In is also.
In Stomachic. I believe is good -

In Gout, it has been recom-
mended - In many diseases is
dangerous - as well here as in
acute Rheumatism as it
produces a translation of
Uricum - Dr. Ferrion has found
it Sol: Camphor in other rubrid
on the joints produce good
Effects -

In Epilepsy. Camphor has
been recommended -

In Chorea Sanele Aili. Dr.
Lutran relates a case suc-
cessfully treated by Camphor -
began in 8th is then as far as 3rd -

In Mania. Melancholia &
Nymphomania. I myself
have seen two cases of Nymph-
omania. W. is more known -
W. Lata. has cured Mania
in our Medicine - he gave 8th
in die & every day increased 7

down 8th - till he took 3j in die -
 Berger uses an medicine in
 very large dose in these diseases.
 In a rub drum that Caraffa
 when it was successful, was
 used in those cases when there
 was little fever or in old People -

Camphor & Opium - has been found
 useful in Cancer - is said to lessen
 & narcotic properties of Opium -
 I have not found it so - is no
 objection to its stimulus of an
 medicine if lessened by another -
 Camphor & Bark, more however
 used in Intermittents -

Camphor & E. - said to lessen of
 Powers of E. - its saltation -

Camphor & Urog¹ E. I have found
 will more readily cure bene-
 real disease &c. I believe it
 stimulates & absorbs & pro-
 mote Absorption more quickly -

Camphor & Cantharides - has

been said to be an ^{acumination} distemper
 & Effects of Camphor. Camphor
 is said to have but an ^{acumination} stranguary - Dr. Cullen never ob-
 served such Effects -

Camphor applied externally is
 said to cure Retention of Urine -

In Troncocele -

Myrrh in water will af-
 ford very much to dissolve
 Camphor. also Gum: Arabic -

6. MUSK. obtained from an
 animal - is of most odori-
 ferous & most intense of its
 odor ~~that~~ any other in Nature -
 It is an inflammable substance.
 rather tough - composed of the
 resinous & gelatinous parts &
 also a saline property. when
 distillation it forms Vol: Alkali.
 It increases of Pulse - sweats -
 raises of Spirits - and much

in China - In Eoub. it is
strongly recommended by
Sir J. Pringle & Dr. Cullen -

In *Telarus* - our Medium
has been used -

In *Hydrophobia*. hereth has
been derived from 3 Chinese
They used it in 8th Jy to 7j
of water and Tincture of Cin.
nabar - I believe it has done
less than has been imagined -
Boerhaave says, is "morbus
inflammatorius maximus". The
cause therefore says, he is bleed-
ing "usque ad delirium".

In *Colica Pectorum* this
medicine has been used - but
I will hereafter inform you
that I & S. S. S. is by far
is most valuable medi-
cine - Dose of genuine Must
is from 8th + to 7j -

(107)
In *Sedimentum* *Tendinum*, from
low ground - Must is said to
be valuable -

In *Maria*. Dr. Cullen found it
very useful -

7. The Matter from *the* *Shunk* on
Pale Cat in *East*: & to *the* has
been found very successful in
chamodic affections. It is said
to be similar to *Must* -

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8. *Caster*. in chemical analysis
appears similar in Qualities to
Must - It is an animal substance
is had from *the* *Beaver* of our
Country - It is a stimulant - It
is useful in *Stomach* *Cough* -

9. *Guaicum*. *Guaiacum* *offic*.
umalis; obtained from it -

This medicine is found in
America - said to cure the
Venerable disease. *M. Hunter*
& *Pell* consider it as a valuable

auxiliary with S in cerebral
disease - Guaiacum is a
Noun-Verb - rather S Verb-Noun -

In Gout - this medicine has
fully acquired much celebrity -
(vide Dr. Dawson, on Rheumatism
and Gout.) Dawson says it may
be given while the Gout is in
progress - Dr. Cullen says, not -

Guai. Guaiac 3j 3j.

arabie . . . 3ij

Aq & Lardan 3ij - Mft it
add sugar - it capt. Cachexia:
mas: N^oij has dose - Burgen -

This is much preferable to the
Sherris's Linctus. It is good in
Gout - particularly in tertiary Stages -

In Colica Pectorum - I have
found this a valuable medi-
cine - S & on S - it acts as an
universal Stimulant -

4. Enthym - one of the me-
dicines in modern an Expectorant
of Mucous Gland is now with
Lancing - they modern an afflu

of Fleets from a neighbouring
 ring vessels - these medicines sh^d
 be continued, if they have be-
 come habitual, otherwise they
 will be apt to follow -

In Hydrocephalus internus -
 Emetics have been recommended -

1. *Peta vulgaris* - or common
 Petal - the Juice is used, squeezed
 up the Nose - the Powder is also
 used -

2. *Asarabacca* ^{Asarum} - This is most
 powerful of this class - it produ-
 ces a very large discharge - & is
 Powder, makes a convenient Snuff -

3. Tobacco - Found indigenous in
 America - called so, from the Island
 of Tobago - Linnaeus called it Nico-
 tiana in Honor of a Consul of
 name of Nicotian - In the form
 of Snuff, it is now all known, as
 Emetics -

4. *Euphorbia Peruvialis* - sh^d
 be carefully used as it is apt

to induce dangerous Inflammation - Erkins have been used
 used to relieve Toothache. Head-
 ache - &c - It has been said Er-
 kins only produce their Effects
 when applied to the Part - but
 I have sufficient Reasons to con-
 clude that they will excite
 stimulatory Effects when taken
 in of Circulation -

Lecture 37th Feb 9th 1798.

5. Emetics -

They are such medicines as
 throw out the Contents of the Stomach
 some authors examining may
 conduce to the Health of the Bo-
 dy, even tho' the Body be in
 good Health - But there are no
 facts to prove this being of any
 service while in a healthy State.

However they are well a-
 dapted to certain states of the system
 under disease - The first Effects
 of Vomits are to evacuate the Stomach
 and then generally evacuate the

Lactarium - which certainly
 is frequently ~~increased~~ incre-
 sed, by Emetics. Castoreum &c -
 promoting action, an increased cir-
 culation throughout. However in
 proportion as they ~~are~~ increase of
 circulation they are followed by
 a diminished action - Cullen
 supposes Emetics excite sympathy
 from the sympathy that exists
 between the skin and stomach.
 but there are Emetics which do
 not excite sympathy, tho they do
 warm - as Digitalis - W. Moore.
 Dr. Robison says. Emetics produce
 an constriction of the vessels of the
 skin. contrary to Dr. Cullen - W.
 Moore says. if Emetics be mixed
 into the stomach they excite warm-
 ting - in the vessels lying - &c
 & blood vessels, exciting. &c -

They are said to be noxious, & if their
 effects show, the Power of the blood vessels
 to throw them from the system. There
 does not such a Power exist -

In Asthma. Meacantha
 has been commended by some
 as recommended in this Complaint.
 In 1760 it frequently induces
 vomiting; but in some Cases
 cures are required. Whennide -
 & Stomach-Standing this med-
 cine given internally, is good
 for Asthma, &c. Instances are
 on Record to prove that the
 chest will immediately ex-
 pect it. In the humoral As-
 thma, Emetics are considered
 by Whennide, as valuable re-
 medies - Dr. Cullen supposes
 Emetics act in Asthma by de-
 termining to the Lungs - I am
 disposed to believe him -

In Hemoptoe. Dr. Osier
 Robison strongly recommend
 & Emetics in this disease.
 He supposes they act by produ-
 cing constriction on the whole

external seeds - Dr. Dalling.
gave doses of $\frac{1}{2}$ gr. $\frac{1}{2}$ with
sugar in Remonhagen. he gave
them Iruamarka so as not to
excite vomiting - in Mithis Gu.
entire $\frac{1}{2}$ lb every two or three hours
had been successful in the
hands of Bunge -

In dreams of J. Head. Em.
has been recommended -

In Hernia. Remoralis, Em.
has been recommended -

In Scourge. The seeds have
generally found them un-
successful, when they even fall.
stomach -

Emulsi are all derived from
the vegetable & mineral Kingdom -

1. Assarum - Assarabacca.
The root has been used $\frac{1}{2}$ mile
much - is a manageable Emu-
li. Leaves are also Emulsi - It
has been used in Intermitents

2. *Erigeron* - Groundsill. A Decoction
of *Erigeron* - applied externally
used for Intermittents.

3. Tobacco - a Decadent habit -
Snuff was found earlier in

3° Hollentols - applied externally

in a state of nature, will
expect correction. Hedman - 307

of Tobacco in a Panthe. 20. cured

Intermittent, and removed in -

Colonel Sumner - at head quarters

working - attend to it, similar to what it
is in nature

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4. *Guayana* - *Stellaria media*

grammatisch ist es als Substantiv - Ne

Roof covered in a Park and a

an
 coast. The smaller P. ...

or mean to ride in $\frac{1}{2}$ Dark.

There are 4 or 5 most valuable

Ermites we are acquainted -

... and either in certainty or

It is in urine - Redd: 3ij. White 3ij ^{urns}

Ant. Larva of *Emetia levis* —

I would recommend to
you this Emetic, as being far
preferable to any other in
Germane Practice - It
most commonly is a cer-
tain emetic - even an
orange will excite Spasms
and even vomiting - It has
in small doses cured the
Hemorrhage - To induce full
vomiting - 3℥ has been given
in Powder - 3ij of Infusions -

It is fully proved that small
doses are sufficient - 8℥ have
been found large enough -
I think however, as an emetic
it should never be given in
doses under 8℥. From
8℥ up to 2j are sufficient -
I have found 8℥ always
sufficient -

In Intermissions - Dr. Cullen

mentions it as being a certain
remedy - given a little before
is accepted -

In Dysentery. - It has been
warmly recommended. so much
so as to receive its name of
St. Lucia - It however does not
deserve so high commendations
as it has received. -

In Puerperal Fever - this
is one of its most inflamma-
tory kind - as an Emetic^{it} has
been found very useful.

In Plague. Physicians have
said they are very useful in
Plague -

6 Bastard Ipecacuanha.

Grows abundantly in our Coun-
try - tis a good Emetic. Its pro-
perties reside exclusively in
its cortical Part - ʒ. ʒss to ʒj
a certain Emetic -

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7. Squill - is emetic - di-
uritic and diaphoretic -
It has deservedly fallen into dis-
repute. The Squill is much
more ^{in some quantities} harmful than is re-
cent. as a great deal of ~~the~~ ^{the} ~~the~~
Parts are dyed - in ^{the} ~~the~~ ~~the~~
waters under -
8. Mustard - an Emetic. —

Metallic Emetics -

1. Copper - The one generally
employed is the Sulphate of
Copper - Simonson recommends
this preparation as particu-
larly successful in Consumption.
It is to be given in ʒi. as
soon as swallowed it is
thrown up. Warm Water
should be drunk before taken.
It is a safe Emetic.

2. Mercury. almost all is

saline preparations of it may
be made vomit - & may
of Turbith Mineral will ex-
cite vomiting - In America
Emetic is as an Emetic
a very useful medicine -
used by Messrs Hunter & Bell -
a Purg should be taken after
giving this Emetic, as from
remaining in the bowels it
will operate - I generally give
of it. This dose always acted
in my hands -

In sore throat - I gave
this Emetic to numbers - it
not only soon excited vomiting
but speedily brought about a sal-
ivation - this is a full hint
when you wish to vomit &
salivate quickly -

3. Zinc - Sulphate of Zinc or

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White tutinol - $\frac{1}{2}$ to $\frac{3}{4}$ - it
shuddily vomits - It is said to
be particularly useful in ex-
creting noxious Passions - but
therefore in those where the
action of the stomach is destroyed
by a Torpor being induced
- But when the stomach is
irritated Ipecacuanha is
preferable

Lecture 39th. Feb 15 1798.

4. Antimony - Antimony in its
 crude state appears to be inert -
I have never used it - it has
an effect on Horses - we are
acquainted with two modes
of preparing it one of which is by
calcination, it is reduced to
the state of tutium antimon. it
is a violent Emetic - it may
it forms a tutium Corat:
Antem: - Another method of ob-
taining antem: is by thion.

ing Antimony: ⁽²⁰⁾ ~~the~~ Nitric & Tartar, in
an ignited crucible - Antimony:
is insoluble in water - The
acid of sulphur - converts it into
an oxide - Nitric acid does the
same - Muriatic in time calcines
it - Aq^a. Regia readily calcines
it - Metal - These acids reduce
the metal to a deliquescent salt -
G. Garass: acid: & Antimony: by dis-
tillation has an Antimony-
Green Antimony & Crystals Tartar
burns Emetic Tartar - or by
Calc Antimony: Green: Salt: - Antimony-
rial Green, from Marsh's Green
and Antimony: - Dr. Mother's
by rubbing a Sol: Tartar Emetic
on his skin produced nausea
and vomiting - sweating & in-
crease of Urine - Purging -

Dr. Bradley has written on the
oral use of Tartar Emetic, in

Rheumatism - It acts as tonic -
it produces an Eruption on the
skin - Neglects of Antiseptics, by
him decomposes Nitric -

Diaphor: Antina: - formed of
Nitric acid Antim: by Heat - it
is a mild preparation - James's
Painful by Dr. Pearson's anal-
ysis, consists of 1/2 Phosphate of
Lime & Calc of Antim: - decomposed
in mucic acid forms of
algebraic Painful - a high Re-
sultation for its diaphoretic
Properties - is the best prepara-
tion -

Lecture 40th Nov 16th. 98

Heard: & Particular Emphasis
to some, instead of some.

6. Purgatives

best medicines as in case
the medicinal action - some
of them operate very gently

and such as I have more
 recently - see Dr. Bullen -

Purgings may be induced other-
 wise than by Purgative Me-
 dicines - as distilled Potash-
 water - Cold feet, has a remark-
 able effect in inducing the
 Purgings - (under Falconer's paper).

The Situation of Cathartics is
 remarkable - it affects from
 the Stomach to the Rectum -
 Stomach - Intestines & Purgative &c -

The distinction into Mild &
 and - well founded -

Mild Purgatives - under this
 Head - First -

1. Cassia fistularis.
2. Tamarind
3. Neutral Salts - among them
 the Phosphate of Soda
4. Anhydrous Mustard

(23)

Acrid. Argemone.

1. Aloe - 2. Rheubarb. Is a
- 1. Aloe. very good Purgative
- it contains a bitter &
astringent property. It has
been according to Dr. Piro is
disputed. Rheubarb has
been supposed to have a pur-
gative operation on the Liver.
It has not. Alcers checked
with Rheubarb, are soon
healed -

3. May Apple is *Potamogeton*
hatteria - called *Deer's Foot* -
a native America - much used
by the Indians - I have seen
it in books as a Purgative -
It is Purgative a sufficient
dose - 3/4 being plentifully -
8/10 May Apple & 8/10 Rheubarb
beats a full dose - It does
not like Rheubarb, leave

a certain kind. It appears
to me to be well adapted to
the cure of inflammatory fevers.
It does not appear to give
much. combined with it
forms a very valuable
purgative.

Our medicine without
losing matter as soon,
and I think in smaller do-
ses. It does not vomit
so readily. It does not
suffer so much. I have pre-
ferred to Iohann & Okenbach.
Lyons of the root - is used
in Colica Pectorum -

Best time to collect it is in
Sept. or when the fruit is
ripe - and dried in the sun -
It is considered by many

an. *Enotia*. My arguments
generally have it to be her.
galium and not *enotia* -

4. Doctor Linker's weed.
The *Triostema frabotata*.
called also bastard Thyme.

5. *Plumby Root*. The
asclepias decumbens of
Linnaeus - called *Flux Root*.
It is a mild purgative & the
root is 1 lb. down from
young 1/4 to 3/4 -

6. *Polygala senega* - both
herbaceous - *enotia* - *dentata*
and *scaphandra* -

Lecture 41st Feb^y 20th 1798.

7. *Sialagoga*. They are either
external or internal -

The External are such as can
act, and excite the interior

surface of the mouth - you
can see that they by increa-
sing the force of calcina, and
use of serum in operation of the head &
jaws -

1. Anthrax Perithia - the
root chewed is chewed -

2. Zanthoxylum or Tooth
ack Lin

3. Masturwort

4. Horse Radish Root

Internal Scallagages.

1. Mercury - or Quicksilver -

it is volatile - very poisonous -
& blind - boils to a great degree
at 203° , from the Mercury -

Mercury soon kills Insects -

Agitation for a length of Time
will reduce it to a Powder -

This is merely a decoction, not
a decomposition - Mercury is
a simple Body - and not an
earthly substance as supposed
Mercury heated in the air is

is converted into a red oxide
 of Mercury, called Merc: Precip:
 red or - heated again in closed
 vessels, the O is reduced - Mer-
 cury is not altered in $\frac{1}{2}$ open
 air - Mercury distilled in Wa-
 ter, converts the water to a
 Black Color - on simple agita-
 tion - it had us a discussion of
 the Mercury - Animals consumed
 in it die and reduce the O -
 This mercurial Water is actually

a Calc of O from sulphuric
 acid, being put in Water, is
 converted into Turbith Mineral.
 This is very valuable - is very
 manageable - and safe -

Nitric Acid reduces O to an
 oxide - and disengages nitrous
 gas - This is $\frac{1}{2}$ Nitrate of Mercury -
 is corrosive -

The alkalis - Earths & dracmetals

Mercury from their solution.
 Mercuric Acid. unites with the
 Salt of Mercury & forms a white
 Precipitate - or Hg_2Cl_2 . The oxy-
 genated acid unites with Oxygen and
 forms Corrosive Sublimates -

The Corros. sublim. is a neutral
 salt. It is a volatile Lacton - its
 taste is strong - This salt tri-
 buited with crude Mercury
 and sublimed, forms Calomel.
 There is no intermediate state
 between Corros. sublim. & Calomel.

Mercury 1 Part - Sulphur 9 Parts
 by trituration forms Otho's Mi-
 neral - Sum of S to throat have
 been advantageous as employed
 in Angina -

Mr. Plenk recommends a Pre-
 paration of Green: Arsenic: & S as
 an excellent Remedy in Lues Venerea
 It does not appear to me as good

(129)
as some of the other Preparations
of Mercury -

The Preparation of Mercury
with it mercurial Air, as I have
is the most valuable - I have
been in the State of seeing it
always in Lues venerea - $\frac{1}{4}$,
 $\frac{1}{2}$ & even $\frac{3}{4}$; I have ad-
ministered - particularly when the skin
is affected - The Preparations of
G. I have seen induce Paralysis -

Calomel - as a collimating or
alterative Property is truly va-
luable - It should be com-
bined with it most certainly -

A solution of Corrosive sublimate
applied to the ^{Palms of} Hands and soles
of the Feet sublimates quickly - it
deserves attention -



Lecture 42^a Feb'y 22^a 98.

Mode of Mercury's Operation
 is described differently by dif-
 ferent authors - Dr. Parry sup-
 poses it acted mechanically
 by its specific gravity -
 Dr. Cullen considers this opi-
 nion - he considers it as an
 unusual agent, in prom-
 oting Excretions, without alter-
 ing the state of the fluids, any
 more than the Blood tests on
 an inflammatory disease -
 Dr. Parry, says Cullen, supposes
 Mercury acts by decending the
 coherence of the fluids - Cullen de-
 nies it, and on the contrary af-
 firms its Operation to be that of a
 stimulus, and in no way does
 it show this, more than in its
 action on the salivary Glands -
 The Fetus of the Death, says Cullen

has been ascribed to a Tuber-
cent state of the Salivary; but we
have no proofs of this - he also
considers it to act particularly
on the Throat and Mouth -
Mercury has been ascribed
to various antiseptic properties
to the venereal virus - The proof
of this (the not conclusion) is that
it cures readily, local venereal
affections by local application.

Dr. Cullen ascribes Mercury
acts by throwing off the poison
from the Body - is not the
cause, for we know that we
can cure the disease by I.
without inducing salivation -
and we also know that other
powerful Evacuants will not cure.

Mr. Hunter - ascribes I. dis-
tray. the venereal Poison, by
setting up a new action, displac-

ment and greater than the vene-
 real action - and that this is
 either the mercurial action, or
 an action different from either
 the venereal or mercurial acti-
 on - Chancres are cured by Mer-
 curials, different from mercuri-
 al Preparations - I have found
 the Nitrate of Silver, before Evaporation
 preferable to any mercurial or
 any other application to vene-
 real Chancres - The Pain if violent
 may be immediately removed
 entirely by touching a little ^{water} on
 the Parts - -

Lecture 43rd July 26th 98 -

The medical Protection of
 Mercury is extremely valuable -
 Hunter has raised many great
 objections to it, - as to cures other
 diseases - & W. Hunter's name is
 more generally adopted in
 Britain - but I think is true -

Comments on Bell on Lues being
 Poisons are such as change
 the system from a healthy to
 a morbid state - These Poisons
 may be applied by Vapor,
 Contact and Wound. They are
 animal and vegetable - For
 a Poison to take Effect, the Body
 must be in a state suscepti-
 ble to such Impressions -

This susceptibility is confined
 to particular Species - This has
 I think been too generally a-
 scribed, for I believe diseases
 are communicated to different
 Species of animals - Absorption
 takes place, in order to produce
 Effects - The Effects of all Poisons
 appear ^{at} certain Periods after
 application - W. Adams on Poisons
 is a valuable work - You will
 recollect Lent: that you may

your Mercury to so great a
 degree as not only to do no
 good but actually to harm.
 Rubens & others will spread
 and destroy your Patients.
 Here you are to lay aside your
 Mercury, which now produces
 an Irritation, and substitute
 the Stimulus - Dr. Monro was
 to be very successful in curing
 Rubens &c., whom I had seen
 used a length of time to no effect.
 by laying aside the Mercury, &
 spreading such Ulcers, and giving
 his Patients Dose and Wine &c.
 When such Ulcers have not cal-
 led for Edges we may expect the
 Constitution capable of removing
 such Phagadene; and if contrary
 when callosity has exist we
 may conclude the Constitution
 incapable to remove the Ulcer -

Mercury appears to be a remedy we are authorised to use in all cases of ulcers - however where no Callosity exists I do think we should be very cautious in using it - and use the Milder as a substitute.

Lecture 44th Feb 27/1879

Mercury, when a recent cut produces an Ulcer - called by Mr. Hunter the Mercurial Ulcer - Its own stimulus will cure the Ulcerous symptoms of Yaws, but in curing it, it only transfers the disease from the skin to the Bones, thus producing violent disease, pain & Death.

Mercury induces a form called the Mercurial fever - Mercury irritates the Glands,

Maria, *Erta duna*. Fertility
 Ditchy &c. Nitric Acid has been
 found by M. Scott of Downham
 E. India, and M. McLean of Cal-
 cutta, readily to induce a sali-
 cation. 100 Drops in a Quart of
 water was given in the course
 of the day. I have found Nitric
 given to Children has endur-
 ed a long month, without
 any ill effect.

In *Le Whils* - I need say
 but little. I will only request
 you will try I. Corros: sub:
 in small Quantities with
 Opium, and I am sure you
 will not be disappointed.

In *Pannochoc*. Calomel
 combined with *Em: acidi*
 and a little Opium I have
 found the best Injection.

In Cancer. I am certain
with Mr. Adams that I never
do harm - Dr. Willmeron speaks of
large ^{of} G. Gamos. Lulym. -
In Scrophula. I believe it

has generally ^{been} found harmful.
Dark and black are teeth.

In Flea, it is well known.

In Worms. valuable. They
are Lumbricals. Arcandus & Li-
nea. In the Lumbricals and
Linna I is to be only used.

G. Gamos. sub: is good in Linna.

In Fevers. I was used in
intermittents as early as 1619 -
by Sir Theodore Meyne -
Doctor Chisholm has found it
of great service in Yellow fever -
From the observation of some
authors, it is important to remem-
ber, that saturation appears to

we with much more diffi-
culty induced by the use of
in warm than cold climates -
Mercury - In these climates

Ent. let me entreat you to
give mercury cautiously - for
its effects are sometimes bad -
as soon as the irritation which
is peculiar to it is induced, you
can derive from its use -

Lecture 45/6. March 1st 1848.

In Dysentery - Dr. Clark is
the first who introduced it
in his climate - he was for
a time doubtful whether it
served its purpose to its im-
provement or mercurial Propriety.
Excessive haemorrhage convinced
him it was owing to its mer-
curial history - different Pos-
itions of Pelvic are required

to effect the wants in different
 Constitutions - I have
 combined to prevent
 mercury from getting - He
 used this medicine so as
 to effect 5 months in acute
 dysentery - In 5 chronic dys-
 sentery a salivation should
 be avoided - Mercury should
 be used in proportion to 5
 degree of 5 disease - Wm^{T. &}
 has been used with good effect
 solution of some of 5 mer-
 curial salts rubbed in 5 palms
 of the hands. I have used with
 5 best effects to salivate -

I have been more successful
 in dysentery since I have used
 mercury - the Excretion is ex-
 tremely nice -

In Gout - Mercury has been

used by Mr. Barb. I have
 found the necessity of exci-
 ting a degree of occlusion
 in South - combined wth G. Sence.
 In Rheumatism - used wth
 good effect -

Hydrochlophalus intusus
 is much less seldom I con-
 sidered of. I never than any
 found -

In *Pisium* - it has been
 found good

In *Hydropholera* - has been
 used by P.

In *Pulla Lirna* - a rare -
 curative snuff of *Pentstemon* Min-
 eral & *Geraniacea* - it exists
 in -

In *Calica Pictorum* - Dr.
 Clutterbuck has given a valu-
 able Paper on its use here -

(41)
The Lead in this dream has
been a Factor of muscular
Fibre - a retention of
of Lead takes place - and the
tendency is excited - Cluttered
Meningeal vessels entirely a dif-
ferent action. It has therefore
been most successfully used
by this Author -

Lead has been employed to
destroy the bad Effects of Mercury in
Lead - its preparation I am cer-
tain may be successfully used
in many diseases - Mr. Hunter
gave Lead in Potasses &c -
I used of Lead in Intestinal
morbidities - I have given it to
a great Length in Pithitis - In
an Intestinal Hemorrhage
I gave ℥iij & 4. every half
hour - He also took as much
as 44 grains in four or five

the hour, & the day: was
 not - I found a man of my
 sugar of Lead, with S. Arakia -
 in the room also -

Lecture 46th March 5th 98 -

In Honey -

'Tis a fact that Honey, re-
 tains the small, white & Proper
 tin of the Vegetables from
 which it is procured - &c. &c.
 &c. &c. &c. &c. &c. &c. &c. -

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8. Diuretics -

Such as mercury is accen-
 tion of urine - This class is by
 no means extensive - There
 are well worthy the atten-
 tion of Physicians - These are
 frequently the medicines to be
 depended on in dropsy. Tho' it
 is more frequently cured than

1. Umbelliferous Plants

1. Common Parsley. They
give relief in dysury.

2. Alliacae -

1. Onion - 2. Garlic - 3

Leek - The onion is used as
expectorant and emetic in
Aria - Dr. Sydenham speaks
highly of Garlic as demulcent -
The Leek, is of late used with
great advantage in cases
of Trachoma in Europe - The
Peasants of Leamers of it a hand to a
gill in a Quart of hot Water
is drunk in 7 days -

3. Siliquosa -

1. Common Horseradish -

it is a stimulant - succed
and emmenagogue -

4. Other Diuretics

Pule: Dandelion - or endive
compared of Ipecac: & Opium

It is considered as well as di-
aphoretic -

2. Liliac of all kinds. The
leaves are Anodyne - it is di-
uretic -

3. Squill - often acts as
a diuretic - ʒij to ʒss for a
dose - when used - when dried
they are stronger, ʒij to ʒss is
sufficient for a diuretic - used
in cough - Dr. Home admin-
isters ʒss to ʒss as frequently as
to act as a cathartic. He mix-
es it with Nitre & Mucilage of
Alum also, and increases if
needed - Dr. Wagon 50 ʒss

This medicine of some
years ago as to act in moderate
Emesis or vomiting - I gave it in
ʒss every afternoon, it dissi-
persed is useful in Anasarca &
moderate vomiting - The
quantity of drink should be very

145.

much increased as well as
equal as all the diuretics -
Mercury has been combined with
equal - as - S. Camor. sublimat. -

4. Meadow Saffron. an emetic
of ʒi too infused in vinegar
and Honey, has been recom-
mended as diuretic by Doctor
Storch -

5. Common Adulchoke, has
acquired some reputation as
diuretic - The juice of ʒi leaves
from 3ʒi to 3ʒ. in di-
Dr. Monro combined it with
some Radish. Mustard Mini.
The Juice of is dropped -
Dr. Darcum uses it -

6. Black Hellebore an Ex-
tract, has been used in France
as a diuretic. and a Purgative -
They compare the Dosis of
Dr. Baker's Laxative Pills -

7. Madder - its emmenagogue

Effects are considerable - and from
 this I can rely on authors who
 say the same -

8. Winter Cherry - has been
 used -

Valerian on Night Shade

9. Root of Asob. 5, an active
 plant -

10. Sarsaparilla - in Menstrua Valeriana
 it is active it readily produces
 abortion -

11. Balsam of Meadus on
 dandruff - it produces Scab.

12. Lobelia Symplicica -

13. Polygala Senega - or

Senega Snake Root - its use

in Lascivious - its taste is

acrid - it excites

gastric - it increases a copious

flow of saliva - helps to cure -

it is dandruff, dandruff -

active, cathartic, expectorant

Doctor Linnæus used it in
case of Snake Bite -

In Pleurisy: it is used. also
in Rheumatism - Brody &
Goub - Mr. Doleat a French
Minister used it in Brody - also
Justice used it - Dr. Percival
used it - ^{attention of} The Physicians of
this City have ^{early} been turned to
it in Dysanthe Trachealis, in
consequence of a communica-
tion from Doctor Archer of
Maryland - There is a Dysan-
the Trachealis which I think
is very common - ^{promises} here it to be
certainly valuable -

In Chronic Head-ache this Me-
dicine has been given in di-
tens or three times a day -
Ruander wrote on this
Plant -

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14. Digitalis - Foxglove - not
 a native of our Country. Under
 Dr. Wethering's work - curing
 heart of the plant appears to help
 up nearly the same property.
 The leaves however are the
 most valuable. In large do-
 ses, it induces nausea, vo-
 miting, depression of spirits, and
 diarrhoea - flow of saliva - en-
 crease of Urine - depression of
 the frequency of the Pulse -
 it induces dyspnoea - The
 flow of urine sometimes
 does not appear until three
 or four days after its pro-
 per exhibition - Dr. Wethering
 found it necessary to induce
 catharsis, to act as diuretic -
 when it acts on the Pulse, Kid.

mays. Stomach or Bowels
 The medicine should be o-
 mitted - when it hangs to
 does no good - when they
 take it they should drink
 a quantity of fluids - Dr. Wi-
 lliams has found, Brandy,
 Mint Tea and small doses
 of Opium necessary to remove
 its effects - but he reposes more
 confidence in Opisthus - Dr.
 Cuthbert gives it in Powder
 from half a grain to three
 grains for a dose - Dr.
 Darnley uses a saturated Lin-
 ture of 2 Leaves in rectified
 spirit - Dr. Cuthbert says it
 seldom succeeds in those of the
 sanguineous temperaments -
 & the Pills in time &c. - we
 have little to expect from

This medicine - an $\frac{1}{2}$ contrary
 when there is a halled Countess.
 none - soft abdomen - sitting
 Legs of one have much to ex-
 'tend from Digitalis - Dr. Witte-
 ring says: Digitalis sometimes
 will not act as diuretic - Quil-
 es will sometimes cure after
 Digitalis has failed - It may be
 used with advantage in all
 kinds of Dropsy except $\frac{1}{2}$ en-
 cysted - In Hydrops thorax it is
 most careful - Doctor Darwin
 should be attended to on the Ex-
 tinction of this medicine -
 It appears to me well adapted to
 $\frac{1}{2}$ cure of Dropsy that succeeds
 an Intermission of $\frac{1}{2}$ - Doctor
 Darwin thinks it is more useful
 in Dropsy from Intoxication -
 In Hemorrhage, it has been re-
 commended -

In Mania also it has been
used with success - Dr. Fox
of England cured a case of
Insanity with this medicine.

I find it difficult to make
up my mind on its Operation
of this medicine; if it were not
for this medicine I should very
much doubt the existence of a
Lactation - Perhaps it will be
found in its true Operation to
be a stimulant - a Case occurred
in Edinburgh, where defecation
ceased inflammation from this
medicine -

15. *Garrologia* - with Gyna-
tals of Tartar, it has been described
with I. tis a good medicine.

—

St. Louis No. 2 —

(vide No. 3)

" " "

